

# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

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VOL. IX ]      WEEK ENDING SATURDAY, JANUARY 2, 1869.      No. 440

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**DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, January the 2nd, 1387 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1223, and in the corresponding week of last year it was 1619. The deaths during the week amounted to 70, being at the rate of 1 death to every 19 cases.

The return under Scarlatina does not fluctuate much, the numbers for the last three weeks being 34, 30, and 32. Fourteen of these 32 cases occurred in Manchester, 11 in Salford, and 7 in Chorlton.

There is an increase in the cases of Measles, the number having risen from 4 to 13. One case occurred in Manchester, 8 in Salford, 3 in Hulme, and 1 in Ardwick.

Three cases of Whooping-Cough are returned against 2 in the preceding week. Two of these were treated at St. Mary's Hospital and the other at the Clinical Hospital.

The cases of Diarrhœa and Dysentery have risen from 15 to 22; in the corresponding week of last year the number was 33.

Four cases of Small-Pox occurred during the week,—2 in Salford, 1 in Hulme, and 1 in Chorlton.

The decline under Fever still continues. This week 45 cases are returned, being 14 less than in the previous week. Fourteen cases are attributed to Continued Fever, 24 to Typhus, and 7 to Typhoid Fever,—14 of the Typhus Fever cases were treated in the Manchester Workhouse, and 5 in the Royal Infirmary.

Bronchitis and other acute chest diseases have been more prevalent the last week than in the week preceding,—238 cases were returned instead of 195.

**DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 259 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Eighty-two deaths were caused by diseases of the lungs, 29 by Scarlatina, 16 by Fever, and 5 by Measles.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 41·0°; at the Royal Infirmary it was 38·8°; and at Old Trafford 38·4°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



**RETURN FROM PAUPER, CHARITABLE, AND PUBLIC**  
*New Cases of Disease coming under Treatment*

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	" " 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	Workhouse. 7	ROYAL INFIRMARY.					CHILDREN		
									In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	
Small-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
Scarlet Fever .....	..	..	2	a1	2	2	7	1	..	..	..	1	...	2	3	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea .....	..	2	..	..	..	..	2	1	..	3	..	..	..	4	..	..
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Malignant Cholera .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..
Continued Fever .....	a1	..	3	..	..	..	4	..	..	..	..	..	1	..	..	..
Typhus .....	..	..	..	..	..	..	..	14	5	..	..	..	..	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..
Febricula .....	..	..	..	..	2	5	7	2	1	..	..	1	1	6	1	..
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	1	..	1	..	2	..	..	..	1	..	..	..
Puerperal Fever .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	2	10	..	5	2	8	27	11	1	40	1	6	5	9	4	..
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia .....	1	1	..	..	..	3	5	4	..	..	..	..	..	..	2	..
Phthisis .....	..	..	1	1	1	1	4	1	..	23	1	..	3	2	..	..
Constitutional Syphilis .....	..	..	..	..	..	..	..	7	..	10	..	..	..	..	..	..
All other Diseases .....	22	7	18	6	5	14	72	92	17	105	5	5	5	13	44	..
Accidents .....	3	..	..	1	2	..	6	..	13	155	1	2	..	..	..	..
<b>TOTAL .....</b>	<b>29</b>	<b>20</b>	<b>24</b>	<b>14</b>	<b>15</b>	<b>34</b>	<b>136</b>	<b>133</b>	<b>41</b>	<b>336</b>	<b>8</b>	<b>16</b>	<b>16</b>	<b>38</b>	<b>55</b>	<b>1</b>

a Removed to Workhouse.

b not Vaccinated.

*Medical Officers to whom the Association*

1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9) Mr. W. H. CARRUTHERS,	(13) Mr. H. RUNCOR
2) " J. BROADBENT,	(6) Dr. LEDWARD,	(10) " J. PORTER,	(14) " J. FINLAYS
(3) " EDWARD MEACHAM,	(7) Mr. J. WESTMORELAND,	(11) " C. CURRIE RITCHIE,	(15) " J. OGDEN FL
(4) " JOHN WALSH.	(8) " J. P. SLEIGHTHOLME,	(12)	(16) " J. TEALE,

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

## REPORTS OF MANCHESTER AND ADJOINING DISTRICTS.

Week ending the 2nd day of January, 1868.

SALFORD.					HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENLEBURY.						DEATHS.	
..... 1,329 .....					..... 477.....			... 646...		508.	..... 2650.....				Area in Statute Acres.			
..... 70,967. ....					... 68,209. ...			...44,850..		21739	.....24,448.....				Population in 1861.			
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS												DISEASES.	
Greengate.	Regent Road.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.				
16	17	18	19	20	21	22	23	24	25	26	27	28						
1	1	..	..	..	..	1	..	..	..	..	..	1	4	..	Small-pox .....	1		
..	..	..	8	..	..	3	..	..	..	1	..	..	13	7	Measles .....	..		
..	..	..	11	..	..	..	..	..	7	..	..	..	32	22	Scarlet Fever. ....	1		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	3	47	Whooping-cough ....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	Croup .....	..		
3	..	..	4	..	..	1	..	..	1	..	..	1	22	31	Diarrhoea .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	Dysentery .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..		
..	..	..	1	..	..	..	..	..	3	..	..	..	5	7	Erysipelas .....	1		
..	..	4	2	..	21	1	1	..	..	..	..	..	14	22	Continued Fever ....	..		
..	..	..	3	..	..	..	..	..	1	..	1	..	24	27	Typhus .....	6		
..	2	..	2	..	..	..	..	..	1	..	..	..	7	6	Enteric or Typhoid ..	..		
..	2	..	3	1	..	4	7	3	..	2	..	2	45	26	Febricula .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..		
..	7	..	2	..	..	..	..	..	..	..	3	..	16	48	Rheumatic Fever ....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....	..		
6	8	..	35	2	8	5	8	4	6	2	2	17	211	301	Bronchitis & Catarrh	11		
..	..	..	3	..	..	..	..	..	..	..	..	..	5	15	Influenza .....	..		
..	..	..	6	..	..	..	..	1	1	..	..	3	22	23	Pleurisy & Pneumonia.	2		
..	1	..	10	..	1	1	..	3	2	..	3	3	59	63	Phthisis .....	11		
..	..	..	7	..	..	..	..	1	..	..	..	1	29	48	Constitutional Syphilis	1		
0	11	2	67	4	9	9	11	11	21	5	12	66	609	690	All other diseases ....	32		
..	3	..	52	..	2	1	3	1	13	..	14	1	267	232	Accidents .....	4		
0	35	6	216	7	21	26	30	24	56	10	35	95	1387	1619	TOTAL .....	70		

indebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,

(18) ,, J. O. BRADBURY,

(19) ,, J. O. BRADBURY,

(20) Dr. BRADDON,

(21) Mr. S. WOODCOCK,

(22) Dr. ALEX. WILSON,

(23) Mr. H. M. WILLIAMSON.

(24) ,, JOSEPH FOSTER,

(25) Mr. W. C. BARNISH,

(26) ,, J. V. L. WESTMACOTT,

(27) ,, R. P. O. GORMAN,

(28) ,, GEORGE CLEMENTS.

the reports of the Association, and has as far as practicable, been taken into account in the conclusions drawn from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C.F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bowel.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnsbp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	1	1	2	..	..	..	..	..	1	2	2	1
Measles .....	..	..	..	2	..	..	..	..	..	1	2	5	8
Whooping-cough.....	..	..	..	..	..	..	..	..	..	..	..	..	29
Scarlatina .....	3	3	..	3	1	1	3	3	3	6	3	29	8
Diarrhoea .....	1	..	..	1	..	..	..	..	..	1	..	3	5
Fever .....	..	2	4	2	63	..	62	1	61	61	..	16	19
Diseases of the Lungs	9	15	9	6	6	9	6	1	5	12	4	82	106
Other causes.....	12	9	17	65	9	64	618	14	69	19	6	122	146
TOTAL NO. OF DEATHS.	25	30	31	19	19	14	29	19	18	40	15	259	322
TOTAL NO. OF BIRTHS.	27	33	11	13	17	26	38	21	31	57	26	306	328

a 2 Inquests

b 2 Typhus.

c 1 Inquest.

d Typhoid.

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Mary's bone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161631.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390, 815.

4 Weeks ending 26th Sept.	5 Weeks ending 31st Oct.	4 Weeks ending 23rd Nov.	TOTAL.	DISEASES.	4 Weeks ending 26th Sept.	5 Weeks ending 31st Oct.	4 Weeks ending 23rd Nov.	TOTAL
..	1	2	3	..... Small-pox .....	4	8	13	25
43	53	71	167	..... Measles .....	24	32	32	88
57	93	76	226	..... Scarlet Fever.....	230	285	175	690
2	1	..	3	..... Diphtheria .....	..	3	3	6
23	32	51	106	..... Whooping-cough .....	2	3	1	6
..	2	3	5	..... Croup .....	2	2	2	6
762	387	208	1357	..... Diarrhoea .....	534	250	139	963
1	2	..	3	..... Dysentery .....	8	11	9	28
..	..	..	..	..... Malignant Cholera.....	..	..	..	..
36	38	31	105	..... Erysipelas .....	34	41	20	95
9	4	18	31	..... Continued Fever .....	191	243	183	627
..	4	3	7	..... Typhus .....	145	268	175	586
2	9	7	18	..... Enteric or Typhoid .....	93	108	81	282
38	55	61	154	..... Febricula .....	280	268	206	754
1	..	..	1	..... Ague .....	2	1	3	6
38	69	76	183	..... Rheumatic Fever.....	61	82	57	200
..	..	..	..	..... Puerperal Fever .....	..	2	1	3
513	672	942	2327	..... Bronchitis and Catarrh .....	718	1132	1138	2988
4	4	6	14	..... Influenza.....	19	47	34	100
42	48	54	144	..... Pleurisy and Pneumonia .....	65	124	109	298
75	95	73	243	..... Phthisis.....	277	318	270	865
26	37	30	93	..... Constitutional Syphilis .....	140	183	167	490
8626	4232	3483	11341	.... Accidents, and all other Diseases.....	4031	4773	3634	12488
5298	6038	5195	16531	TOTAL	6910	8229	6455	21594

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN DECEMBER.												
	Inches.	Wet Days.	Royal Infirmary, Dr. REED.	Salford Meteorologl. Observatory, T. Mackereth, Esq.	Old Trafford, G.V. VERNON, Esq.	Eccles, T.MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L.W. Reynolds Esq.			
Royton .....	9.300	29										
Wilmslow ....	....	..										
Salford .....	....	..										
Old Trafford ..	8.123	29										
Penketh .....	6.994	29										
Eccles .....	....	..										
Height of barometer cistern above sea level			130 ft.	108 ft.	145 ft.	145 ft.	251 ft.	544 ft.	43 ft.			
<b>Barometer.</b>			INS.	INS.	INS.	INS.	INS.	INS.	INS.			
Mean @ 32° F., and reduced to sea level			29.476		29.466			29.455	29.455			
Highest.....			30.112		29.950			29.480	30.047			
Lowest .....			29.124		28.616			28.100	28.695			
Range .....			0.988		1.334			1.380	1.352			
<b>Temperature.</b>												
Adopted Mean .....			38.8	NO RETURN.	38.4	NO RETURN.	NO RETURNS.	37.2	38.3			
Range for Week .....			11.3		24.8			24.2	28.1			
Daily Range.....			3.9		11.2			11.8	9.0			
Maximum in Shade .....			44.3		50.8			49.0	52.4			
Minimum in Shade .....			33.0		26.0			24.8	24.3			
Temperature of Dew Point .....			35.3		35.7			35.3	35.4			
<b>Hygrometrical condition of the Atmosphere.</b>												
Degree of Humidity (Saturation—1,000)			GRS. 0.872		GRS. 0.891			GRS. 0.923	GRS. 0.896			
Prevailing Winds .....			.....		SW			W	W			
Rain .....			.....		1.442			1.380	1.368			
<b>Ozonometer.</b>												
Moffat .....			....		4.00			....	....			
Schonbein .....			....		0.14			4.60	4.70			

January, 2nd, 1868.

JOHN HEAP, Royton, Oldham

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

---

[VOL. IX.] WEEK ENDING SATURDAY, JANUARY 9, 1869. No. 441

---

**DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, January the 9th, 1597 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1387, and in the corresponding week of last year it was 1619. The deaths during the week amounted to 62, being at the rate of 1 death to every 25 cases.

The present return is unfavorable.

Scarlatina has increased in prevalency during the week, the cases having risen from 32 to 47. Seventeen of the cases occurred in Manchester, 26 in Salford, 2 in Hulme, and 2 in Chorlton.

Eleven cases of Measles are returned, being 3 less than in the previous week. Nine occurred in Salford, 1 in Ardwick, and 1 in Chorlton.

Diarrhoea and Dysentery are on the increase the numbers for the last three weeks being 15, 22, and 36.

The Fever return is also unfavorable, 65 cases are reported, being an increase of 20 upon the return of the preceding week. Twenty-one cases are assigned to Continued Fever, 32 to Typhus, and 12 to Typhoid Fever,—17 cases of Typhus Fever were treated in the Manchester Workhouse, 7 in the Royal Infirmary, and 4 in the Chorlton Union Workhouse.

Bronchitis and other acute chest diseases are becoming more prevalent, the numbers for the last three weeks being 195, 238 and 302

Not a single case of Whooping-Cough occurred during the week.

**DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 304 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Ninety-seven deaths were caused by diseases of the lungs, 29 by Scarlatina, 22 by Fever, and 7 each by Measles and Diarrhoea.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 45·7°; at the Salford Observatory it was 42·8°; at Eccles 42·1°; and at Old Trafford 42·1°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

33, Pall Mall, Manchester



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	,, ,, 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 8	Workhouse. 7	ROYAL INFIRMARY.					CHILDREN		15
									In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	
Small-pox .....	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..
Measles .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scarlet Fever .....	..	2	..	a1	1	..	4	2	1	1	..	..	3	4	2	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	1	..	..	..	..	..	1	1	..	3	..	..	1	7	4	..
Dysentery .....	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	a1	..	..	1	..	1	..	2	..	..	..	..	..
Continued Fever.....	2	a1	5	1	a1	..	10	..	..	..	..	..	..	..	..	..
Typhus .....	..	..	..	..	..	..	..	17	7	..	..	1	..	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Febricula.....	2	..	..	..	1	5	8	..	1	1	1	..	3	8	1	..
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	..	2	6	2	4	4	1	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	6	7	2	5	6	7	33	12	1	41	4	4	8	11	9	..
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	2	..	..	..	1	1	4	3	1	4	..	..	2	..	5	..
Phthisis .....	..	..	1	..	..	1	2	3	..	18	4	3	4	6	1	1
Constitutional Syphilis .....	..	..	..	..	..	..	..	6	..	3	..	..	1	..	2	2
All other Diseases .....	15	10	18	7	5	26	81	69	20	134	2	5	6	48	57	4
Accidents .....	1	2	..	..	..	4	7	..	9	113	1	2	3	..	..	..
TOTAL .....	29	22	26	15	15	45	152	115	44	324	16	19	35	85	81	19

a Removed to Workhouse.

Medical Officers to whom the Association

(1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9) Mr. W. H. CARRUTHERS,	(13) Mr. H. RUNCORN
(2) „ J. BROADBENT,	(6) Dr. LEDWARD,	(10) „ J. PORTER,	(14) „ J. FINLAYSON
(3) „ EDWARD MEACHAM,	(7) Mr. J. WESTMORELAND,	(11) „ C. CURRIE RITCHIE,	(15) „ J. OGDEN FLEMING
(4) „ JOHN WALSH.	(8) „ J. P. SLEIGHTHOLME,	(12) „	(16) „ J. TEALE,

N.B.--Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door



# ANITARY ASSOCIATION.

## ONS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 9th day of January, 1869.

SALFORD.				HULME.			CHORLTON.		ARDWICK	PENDLETON AND PENDLEBURY.								
.. 1,329 .....				.... 477. ....			.. 646. ....		508.	..... 2650. ....			Area in Statute Acres.					
.. 70,967. ....				.. 68,209. ....			.. 44,850. ....		21739	..... 24,448. ....			Population in 1861.					
POOR LAW DISTRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.				Poor Law District.		Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	DEATHS.
17	18	19	20	21	22	23	24	25	26	27	28							
1	..	..	..	..	..	..	..	..	..	..	..	3	..	Small-pox .....	..			
..	..	9	..	..	..	..	..	..	1	..	1	11	7	Measles .....	3			
..	9	17	..	1	1	..	..	2	..	..	..	47	22	Scarlet Fever. ....	4			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..			
..	..	..	..	..	..	..	..	..	..	..	..	..	47	Whooping-cough ....	..			
..	..	..	..	1	..	..	..	..	..	..	..	1	2	Croup .....	..			
..	..	2	1	..	...	1	..	2	..	..	5	35	31	Diarrhoea .....	1			
..	..	..	..	..	..	..	..	..	..	..	..	1	2	Dysentery .....	..			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..			
1	..	2	..	..	2	..	..	..	..	1	..	11	7	Erysipelas .....	..			
..	1	3	..	1	..	3	..	1	..	..	2	21	22	Continued Fever ....	..			
..	..	1	..	..	..	..	..	..	..	2	4	32	27	Typhus .....	12			
2	..	3	..	..	..	..	1	2	1	2	..	12	6	Enteric or Typhoid ..	..			
1	..	..	..	1	..	7	5	1	3	..	..	43	26	Febricula .....	1			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..			
2	..	..	..	3	..	..	1	..	1	..	1	27	48	Rheumatic Fever ....	..			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....	..			
6	..	39	5	3	7	9	4	11	..	12	40	275	301	Bronchitis & Catarrh	6			
..	..	1	..	..	..	..	..	..	..	..	..	3	15	Influenza .....	..			
..	..	3	..	..	..	..	..	1	..	..	1	24	23	Pleurisy & Pneumonia.	1			
..	..	10	..	..	..	..	2	4	3	2	7	70	63	Phthisis .....	9			
..	..	7	..	..	..	..	..	..	..	..	6	27	48	Constitutional Syphilis	..			
11	3	95	3	11	9	19	26	33	6	22	66	744	690	All other diseases ....	24			
5	..	43	..	2	1	..	..	8	1	10	3	210	2 32	Accidents .....	1			
29	13	235	9	23	20	39	39	65	16	51	136	1597	1619	TOTAL .....	62			

ndebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18)  
(19) „ J. O. BRADBURY,  
(20) Dr. BRADDON,

(21) Mr. S. WOODCOCK,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON.  
(24) „ JOSEPH FOSTER,

(25) Mr. W. C. BARNISH,  
(26) „ J. V. L. WESTMACOTT,  
(27) „ R. P. O. GORMAN,  
(28) „ GEORGE CLEMENTS.

he reports of the Association, and has as far as practicable, been taken into account in the conclusions  
n from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	1	..	..	..	..	..	1	2	1	..	2	7	1
Measles .....	..	..	..	..	..	..	..	..	..	..	..	..	8
Whooping-cough.....	..	..	..	..	..	..	..	..	..	..	..	..	29
Scarlatina .....	2	4	4	3	1	5	2	2	..	5	1	29	8
Diarrhœa .....	..	..	1	..	..	..	1	..	2	3	..	7	5
Fever .....	..	1	11	..	1	62	1	..	2	1	3	22	19
Diseases of the Lungs	14	9	11	7	14	4	1	6	14	15	2	97	106
Other causes.....	24	14	14	12	11	11	12	13	11	13	7	142	146
TOTAL NO. OF DEATHS.	41	28	41	22	27	22	18	23	30	37	15	304	322
TOTAL NO. OF BIRTHS.	51	65	12	18	18	36	46	11	34	42	25	358	328

a 3 Inquests.    b Typhoid.    c 2 Inquests.    d 1 Inquest.    e 1 Typhus and 1 Gastric.    f 1 Typhoid.

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 31st Oct.	4 Weeks ending 28th Nov.	4 Weeks ending 26th Dec.	TOTAL.	DISEASES.	5 Weeks ending 31st Oct.	4 Weeks ending 28th Nov.	4 Weeks ending 26th Dec.	TOTAL
1	2	2	5	..... Small-pox .....	8	13	23	44
53	71	52	176	..... Measles .....	32	32	18	82
93	76	46	215	..... Scarlet Fever .....	285	175	158	618
1	..	1	2	..... Diphtheria .....	3	3	..	6
32	51	50	133	..... Whooping-cough .....	3	1	4	8
2	3	1	6	..... Croup .....	2	2	..	4
387	208	204	799	..... Diarrhœa .....	290	139	117	546
2	..	..	2	..... Dysentery .....	11	9	4	24
..	..	..	..	..... Malignant Cholera.....	..	..	..	..
38	31	20	89	..... Erysipelas .....	41	20	18	79
4	18	12	34	..... Continued Fever .....	248	188	113	549
4	3	2	9	..... Typhus .....	268	173	167	608
9	7	1	17	..... Enteric or Typhoid .....	108	81	60	249
55	61	67	183	..... Febricula .....	268	206	161	635
..	..	3	3	..... Ague .....	1	3	1	5
69	76	55	200	..... Rheumatic Fever.....	82	57	61	200
..	..	..	..	..... Puerperal Fever.....	2	1	..	3
872	942	868	2682	..... Bronchitis and Catarrh .....	1132	1138	1063	3333
4	6	2	12	..... Influenza.....	47	34	18	99
48	54	45	147	..... Pleurisy and Pneumonia .....	124	109	72	305
95	73	62	230	..... Phthisis.....	318	270	219	807
37	30	19	86	..... Constitutional Syphilis .....	183	167	159	509
4232	3483	3241	10956	..... Accidents, and all other Diseases.....	4773	3634	3447	11854
6038	5195	4753	15986	TOTAL	8229	6455	5883	20567

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN DECEMBER.				Royal Infirmary, Dr. REED.	Salford Meteorologl. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Inches.      Wet Days.										
Royton .....	9.300	.....	29							
Wilmslow ....	.....	.....	..							
Salford .....	.....	.....	..							
Old Trafford ..	8.123	.....	29							
Penketh .....	6.994	.....	29							
Eccles .....	.....	.....	..							
Height of barometer cistern above sea level				130 ft.	108 ft.	145 ft.	145 ft.	251 ft.	544 ft.	43 ft.
<b>Barometer.</b>				INS.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level				30.042	30.043	30.046	30.043	30.046	30.046	30.028
Highest.....				30.442	30.377	30.379	30.377	29.918	30.474	30.474
Lowest .....				29.336	29.287	29.180	29.287	28.810	29.322	29.322
Range .....				1.105	1.090	1.199	1.090	1.108	1.152	1.152
<b>Temperature.</b>										
Adopted Mean .....				46.9	42.8	42.1	42.1		40.4	41.1
Range for Week .....				9.0	21.7	23.5	24.5		21.8	27.2
Daily Range.....				3.3	9.6	14.2	11.9		12.4	11.5
Maximum in Shade .....				50.0	54.0	53.5	53.5		52.0	54.4
Minimum in Shade .....				41.0	32.3	30.0	29.0		30.2	27.2
Temperature of Dew Point .....				42.7	40.8	38.5	39.2		38.6	39.1
<b>Hygrometrical condition of the Atmosphere.</b>										
Degree of Humidity (Saturation—1,000)				GRS. 0.850	GRS. 0.928	GRS. 0.877	GRS. 0.899	NO RETURNS.	GRS. 0.932	GRS. 0.922
Prevailing Winds .....				.....	S, SE	SE	S, SE		SW	S, SW
Rain .....				.....	0.377	0.382	0.393		0.560	0.240
<b>Ozonometer.</b>										
Moffat .....				.....	3.85	4.29	.....		.....	.....
Schonbein .....				.....	.....	0.86	.....		3.27	4.40



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.] WEEK ENDING SATURDAY, JANUARY 16, 1869. No. 442

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, January the 16th, 1646 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1597, and in the corresponding week of last year it was 1723. The deaths during the week amounted to 59, being at the rate of 1 death to every 27 cases.

This return is unfavorable.

There is a considerable increase in the cases of Small Pox, last week 3 were observed, in the week under notice 15 came under treatment. These 15 cases occurred in Manchester.

Forty-five cases of Scarlatina are returned, being 2 less than in the preceding week. In the corresponding week of last year the number was 16. Nineteen cases occurred in Manchester, 19 in Salford, 3 in Hulme, and 4 in Chorlton. Though this disease continues to be so prevalent, the mortality among the cases treated in public practice is low. In the last three weeks 124 cases have been observed and 7 deaths have been registered, being 1 death to every 17 cases.

There is a slight increase in the Fever return, 68 cases being reported instead of 65. Twenty-six cases were assigned to Continued Fever, 30 to Typhus, and 12 to Typhoid Fever,—11 cases of Typhus were treated in the Manchester Workhouse, 2 in the Royal Infirmary, and 8 in the Chorlton Union Workhouse.

Bronchitis and other acute chest diseases remain much the same as in the preceding week, 300 cases being returned instead of 302.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 245 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Sixty-seven deaths were caused by diseases of the lungs, 31 by Scarlatina, 17 by Fever, and 4 by Measles.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 40·4°; at the Salford Observatory it was 43·0°; at Eccles 42·1°; and at the Royal Infirmary 43·1°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



MANCHESTER AND SALE

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment I

MANCHESTER.																
Area in Statute Acres.....	Manchester Township 1,645 .....															
Population in 1861.....	,, ,, 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	Workhouse. 7	ROYAL INFIRMARY.						CHILDREN	
									In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	City Genl Hospital. 15
Small-pox .....	..	..	1	..	..	4	5	3	4	..	..	2	..	..	1	..
Measles .....	..	..	2	..	..	1	3	1	..	..	..	..	..	..	..	..
Scarlet Fever .....	..	1	..	c3	..	1	5	1	2	..	..	2	3	5	1	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	3	..	..	1	1	5	3	..	..	..	..	..	7	1	..
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	..	..	3	..	..	1	1	..	..	..	..
Continued Fever.....	a1	..	9	a1	..	..	11	..	..	..	..	..	..	..	..	..
Typhus .....	a2	..	..	..	a1	..	3	11	2	..	..	1	1	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	3	1	..	..	..	1	..	..	..
Febricula.....	..	..	3	..	1	..	4	11	1	1	1	2	1	9	..	..
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	..	1	5	2	1	5	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	3	12	4	6	b4	13	42	9	1	29	6	8	6	20	12	..
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	..	..	..	..	..	3	3	2	1	..	..	..	..	..	1	..
Phthisis .....	..	1	..	..	2	2	5	4	..	13	3	1	3	5	..	..
Constitutional Syphilis .....	1	..	..	..	..	1	2	10	..	1	..	..	1	..	..	..
All other Diseases .....	13	9	11	10	b10	18	71	60	26	150	3	4	6	53	67	..
Accidents .....	3	2	..	..	..	2	7	..	17	93	..	..	..	..	..	..
TOTAL .....	23	28	30	20	19	46	166	121	56	292	16	22	27	99	83	18
a Removed to Workhouse.      b 1 Removed to Workhouse.      c 2 Removed to Workhouse.																

Medical Officers to whom the Association

(1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9) Mr. W. H. CARRUTHERS,	(13) Mr. H. RUNCOR
(2) „ J. BROADBENT,	(6) Dr. LEDWARD,	(10) „ J. PORTER,	(14) „ J. FINLAYSON
(3) „ EDWARD MEACHAM,	(7) Mr. J. WESTMORELAND,	(11) „ C. CURRIE RITCHIE,	(15) „ J. OGDEN FLEMING
(4) „ JOHN WALSH.	(8) „ J. P. SLEIGHTHOLME,	(12) „	(16) „ J. TEALE,

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

## REPORTS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 16th day of January, 1869.

SALFORD.					HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.						DEATHS.	
... 1,329 .....					... 477 .....			... 646 ...		508.	... 2650 .....				Area in Statute Acres.			
... 70,967. ....					... 68,209. ...			... 44,850 ..		21739	... 24,448 .....				Population in 1861.			
POOR LAW DISTRICT.		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.		Poor Law District.		Ardwick & Ancoats Dispensary.		Chorlton Union Workhouse.		Total.	Corresponding Week last Year.	DISEASES.
17	18	19	20	21	22	23	24	25	26	27	28							
..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	..	Small-pox .....	..	
..	..	7	..	..	..	..	..	..	..	..	..	..	..	11	6	Measles .....	1	
..	1	14	..	1	2	..	2	1	..	..	1	..	..	45	16	Scarlet Fever. ....	2	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	59	Whooping-cough ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..	
..	..	1	3	1	..	..	..	..	..	..	1	..	..	30	32	Diarrhoea .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Dysentery .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..	
..	..	..	..	1	..	..	..	..	..	..	..	..	..	7	7	Erysipelas .....	..	
..	3	2	..	2	1	1	1	3	..	..	1	..	..	26	23	Continued Fever ....	..	
2	..	2	..	..	..	..	..	..	..	..	8	..	..	30	32	Typhus .....	7	
2	..	1	..	..	..	..	1	2	..	..	1	..	..	12	2	Enteric or Typhoid ..	1	
..	..	2	..	3	3	6	2	4	..	..	1	..	..	53	52	Febricula .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	Ague .....	..	
..	..	..	..	1	..	..	..	..	..	..	2	..	..	17	40	Rheumatic Fever ....	..	
..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	1	Puerperal Fever.....	..	
3	10	..	44	6	7	6	3	8	11	1	11	30	276	324	Bronchitis & Catarrh	9		
1	1	..	2	..	..	..	..	..	..	..	..	..	5	16	Influenza .....	..		
..	..	4	1	1	1	..	..	1	..	1	3	..	19	23	Pleurisy & Pneumonia.	2		
2	2	..	13	..	..	1	..	3	..	1	4	2	63	74	Phthisis .....	7		
..	3	..	5	..	..	..	..	..	1	..	4	..	29	49	Constitutional Syphilis	..		
7	19	9	102	3	7	7	16	30	29	6	27	70	785	756	All other diseases ....	30		
3	..	..	67	..	1	..	..	..	12	1	17	4	222	20 7	Accidents .....	..		
4	39	13	267	13	25	21	26	47	63	10	60	128	1646	1723	TOTAL .....	59		

d 1 Removed to Workhouse and 1 to Infirmary.

indebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18) ..  
(19) .. J. O. BRADBURY,  
(20) Dr. BRADDON,

(21) Mr. S. WOODCOCK,  
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Small Pox .....	..	1	..	..	..	..	..	3	..	..	..	1	..
Measles .....	..	..	..	1	..	..	..	..	..	..	..	4	5
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	19
Scarlatina .....	1	3	1	2	1	8	2	3	2	7	1	31	17
Diarrhoea .....	..	..	1	..	1	1	..	..	..	..	..	3	10
Fever .....	2	1	10	..	..	e1	..	..	..	f3	..	17	15
Diseases of the Lungs	12	6	6	5	7	11	4	3	3	7	3	67	76
Other causes .....	9	a11	15	9	b7	d7	e23	a7	8	15	e11	122	128
TOTAL NO. OF DEATHS.	24	22	33	17	16	28	29	16	13	32	15	245	270
TOTAL NO. OF BIRTHS.	40	45	17	19	21	24	38	12	40	47	29	332	301

a 1 Inquest.    b 3 Inquests.    c Typhoid.    d 4 Inquests.    e 2 Inquests.    f 1 Typhus

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
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Population in 1861, 390,815.

5 Weeks ending 31st Oct.	4 Weeks ending 28th Nov.	4 Weeks ending 26th Dec.	TOTAL.	DISEASES.	5 Weeks ending 31st Oct.	4 Weeks ending 23th Nov.	4 Weeks ending 26th Dec.	TOTAL
1	2	2	5	Small-pox .....	8	13	23	44
53	71	52	176	Measles .....	32	32	18	82
93	76	46	215	Scarlet Fever .....	285	175	158	618
1	..	1	2	Diphtheria .....	3	3	..	6
32	51	50	133	Whooping-cough .....	3	1	4	8
2	3	1	6	Croup .....	2	2	..	4
387	208	204	799	Diarrhoea .....	290	139	117	546
2	..	..	2	Dysentery .....	11	9	4	24
..	..	..	..	Malignant Cholera .....	..	..	..	..
38	31	20	89	Erysipelas .....	41	20	18	79
4	18	12	34	Continued Fever .....	248	188	113	549
4	3	2	9	Typhus .....	268	175	167	603
9	7	1	17	Enteric or Typhoid .....	108	81	60	249
55	61	67	183	Febricula .....	268	206	161	635
69	76	55	200	Ague .....	1	3	1	5
..	..	..	..	Rheumatic Fever .....	82	57	61	200
872	942	868	2682	Puerperal Fever .....	2	1	..	3
4	6	2	12	Bronchitis and Catarrh .....	1132	1138	1063	3333
48	54	45	147	Influenza .....	47	34	18	99
95	73	62	230	Pleurisy and Pneumonia .....	124	109	72	305
37	30	19	86	Phthisis .....	318	270	219	807
4232	3483	3241	10956	Constitutional Syphilis .....	183	167	159	509
6038	5195	4753	15986	Accidents, and all other Diseases .....	4773	3634	3447	11854
				TOTAL	8229	6455	5883	20567

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN DECEMBER.				Royal Infirmary, Dr. REED.		Salford Meteorolog. Observatory, T. Maekereeth, Esq.		Old Trafford, G. V. VERNON, Esq.		Eccles, T. MACKERETH Esq.		Wilmslow, J. THOMPSON, Esq.		Royton, J. HEAP, Esq.		Penketh, Warrington L. W. Reynolds Esq.		
	Inches.	Wet Days.																
Royton .....	9.300	.....	29															
Wilmslow .....	.....	.....	..															
Salford .....	.....	.....	..															
Old Trafford ..	8.123	.....	29															
Penketh .....	6.994	.....	29															
Eccles .....	.....	.....	..															
Height of barometer cistern above sea level				130 ft.	108 ft.	145 ft.	145 ft.	251 ft.	544 ft.	43 ft.								
<b>Barometer.</b>				INS.	INS.	INS.	INS.	INS.	INS.	INS.								
Mean @ 32° F., and reduced to sea level				30.027	29.989	..	29.989	..	29.945	..								
Highest .....				30.234	30.199	..	30.199	..	29.760	..								
Lowest .....				29.446	29.343	..	29.343	..	28.914	..								
Range .....				0.788	0.856	..	0.856	..	0.846	..								
<b>Temperature.</b>																		
Adopted Mean .....				43.1	43.0	..	42.1	..	41.2	..								
Range for Week .....				13.7	11.9	..	13.5	..	18.8	..								
Daily Range .....				3.1	6.6	..	7.7	..	11.4	..								
Maximum in Shade .....				50.0	49.1	..	49.5	..	49.4	..								
Minimum in Shade .....				36.3	37.2	..	36.0	..	30.6	..								
Temperature of Dew Point .....				38.7	38.3	..	38.5	..	38.4	..								
<b>Hygrometrical condition of the Atmosphere.</b>				GRS.	GRS.	..	GRS.	..	GRS.	..								
Degree of Humidity (Saturation—1,000)				0.845	0.834	..	0.878	..	0.895	..								
Prevailing Winds .....				.....	SE	..	SE	..	SE	..								
Rain .....				.....	0.412	..	0.419	..	0.592	..								
<b>Ozonometer.</b>																		
Moffat .....				.....	.....	..	2.42	..	.....	..								
Schonbein .....				.....	.....	..	....	..	2.50	..								



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

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VOL. IX.]      WEEK ENDING SATURDAY, JANUARY 23, 1869.      No. 443

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**DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, January the 23rd, 1600 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1646, and in the corresponding week of last year it was 1942. The deaths during the week amounted to 49, being at the rate of 1 death to every 32 cases.

There is this week an improvement in the return of zymotic diseases.

The number of Scarlatina cases has fallen from 45 to 36. Seventeen of these cases occurred in Manchester, 13 in Salford, 2 in Hulme, and 4 in Chorlton.

Small Pox has not been so prevalent during the week, the number of cases having fallen from 15 to 7. Five of these were observed in Manchester and 2 in Salford.

There is also a decrease in the number of cases of Measles, 9 being returned instead of 11. These 9 cases were treated at the Salford Dispensary.

The number of Fever cases treated in the public practice of Manchester and Salford during the week was less than in the preceding week,—61 cases being returned against 68. Twenty-two cases were ascribed to Continued Fever, 29 to Typhus, and 10 to Typhoid Fever,—15 fever cases were treated in the Manchester Workhouse, 3 in the Royal Infirmary, 3 in the Chorlton Workhouse, and 10 at the Salford Dispensary.

The cases of Bronchitis and other acute chest diseases have risen from 300 to 329.

**DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 229 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Seventy-seven deaths were caused by diseases of the lungs, 21 by Scarlatina, 12 by Fever, and 6 by Measles.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 36·6°; at the Salford Observatory it was 42·5°; at Eccles 41·6°; and at Old Trafford 40·8°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,  
33, PALL MALL, MANCHESTER.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS  
New Cases of Disease coming under Treatment in 1861

MANCHESTER.																
Area in Statute Acres .....		Manchester Township 1,645 .....														
Population in 1861 .....		,, ,, 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	Workhouse. 7	ROYAL INFIRMARY.			District I. 10	District II. 11	District III. 12	CHILDREN	
									In-patients. 8	Out-patients. 9					St. Mary's Hospital. 13	Clinical Hospital. 14
																City Gaol. 15
Small-pox .....	..	..	..	..	..	2	2	1	2	..	..	..	..	..	..	..
Measles .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scarlet Fever .....	..	1	..	1	..	..	2	..	4	..	..	1	5	5	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	..	1	..	..	..	1	2	2	..	2	..	..	..	7	2	4
Dysentery .....	..	..	..	..	1	1	2	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	..	..	2	..	..	1	..	..	..	..	..
Continued Fever.....	3	1	2	1	..	..	7	1	..	..	..	..	..	..	..	..
Typhus .....	..	..	..	..	..	..	..	13	3	..	..	1	4	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	1	..	..	..	..	1	..	1	..
Febricula.....	..	..	..	..	..	4	4	..	3	..	..	1	1	10	3	3
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	1	..	1	..	1	9	1	..	4	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Bronchitis and Catarrh.....	7	7	2	11	10	8	45	11	..	45	3	5	5	22	17	4
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	1	..	..	..	2	3	6	1	..	..	..	..	2	..	..	..
Phthisis .....	..	..	..	..	..	..	..	3	1	11	3	1	3	4	..	1
Constitutional Syphilis .....	..	..	..	..	..	..	..	10	..	10	..	..	..	..	2	2
All other Diseases .....	20	5	6	6	4	15	56	85	18	128	4	6	7	83	65	4
Accidents .....	1	1	..	1	..	2	5	..	14	85	..	..	1	..	..	..
TOTAL .....	32	16	10	21	18	36	133	131	46	290	12	15	33	131	90	18

a Removed to Workhouse.

Medical Officers to whom the Association

- 1) Mr. R. M. MANN.  
2) „ J. BROADBENT,  
3) „ EDWARD MEACHAM,  
4) „ JOHN WALSH.

(5) Mr. OCTAVIUS DEAN,  
(6) Dr. LEDWARD,  
(7) Mr. J. WESTMORELAND,  
(8) „ J. P. SLEIGHTHOLME,

(9) Mr. W. H. CARRUTHERS,  
(10) „ J. PORTER,  
(11) „ C. CURRIE RITCHIE,  
(12) „

(13) Mr. H. RUNCORN,  
(14) „ J. FINLAYSON,  
(15) „ J. OGDEN FLETCHER,  
(16) „ J. TEALE,

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

## ONS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 23rd day of January, 1869.

SALFORD.				HULME.			CHORLTON.		ARDWICK	PENDLETON AND PENDLEBURY.				Area in Statute Acres. Population in 1861.		DEATHS.
1,329 .....				477. ....			646. ....		508.	2650. ....						
70,967. ....				68,209. ..			44,850. ..		21,739	24,448. ....						
LAW TRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.		Poor Law District.		Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.		
Regent Road.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.			
17	18	19	20	21	22	23	24	25	26	27	28					
..	..	2	..	..	..	..	..	..	..	..	..	7	2	Small-pox .....	3	
..	..	9	..	..	..	..	..	..	..	..	..	9	3	Measles .....	..	
..	2	11	..	1	1	..	..	1	..	..	3	36	25	Scarlet Fever. ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	1	45	Whooping-cough ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Croup .....	..	
1	..	2	2	..	1	..	..	3	al	1	1	32	32	Diarrhœa .....	..	
..	..	..	..	..	..	..	1	..	..	..	..	4	2	Dysentery .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..	
..	..	..	..	..	..	..	..	..	..	1	..	4	7	Erysipelas .....	..	
..	6	5	..	1	al	..	..	..	..	..	..	22	20	Continued Fever ....	1	
..	..	3	..	..	..	..	..	..	..	1	3	29	47	Typhus .....	5	
1	..	2	..	..	..	..	1	2	..	1	..	10	5	Enteric or Typhoid ..	1	
1	..	4	..	3	3	4	2	3	..	..	2	27	51	Febricula .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Ague .....	..	
..	..	2	..	..	..	..	1	2	..	1	..	23	33	Rheumatic Fever ....	..	
..	..	1	..	..	..	..	..	..	..	..	..	2	3	Puerperal Fever.....	..	
9	..	46	6	7	2	5	8	7	2	10	45	311	360	Bronchitis & Catarrh	8	
..	..	..	..	..	..	..	..	..	..	..	..	..	4	Influenza .....	..	
1	..	3	..	..	..	1	..	..	..	1	3	18	36	Pleurisy & Pneumonia.	..	
1	..	13	..	..	1	..	1	4	..	2	9	58	80	Phthisis .....	11	
..	..	4	1	..	..	..	3	..	..	..	5	37	36	Constitutional Syphilis	..	
12	5	78	2	9	13	14	23	24	8	22	70	749	896	All other diseases ....	15	
3	..	59	..	1	..	..	1	12	..	19	1	201	253	Accidents .....	5	
29	13	244	11	22	22	24	41	58	11	59	142	1600	1942	TOTAL .....	49	

Debited for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18) .. J. O. BRADBURY,  
(19) .. J. O. BRADBURY,  
(20) Dr. BRADDON,

(21) Mr. S. WOODCOCK,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON.  
(24) .. JOSEPH FOSTER,

(25) Mr. W. C. BARNISH,  
(26) .. J. V. L. WESTMACOTT,  
(27) .. R. P. O. GORMAN,  
(28) .. GEORGE CLEMENTS.

reports of the Association, and has as far as practicable, been taken into account in the conclusions from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	1	..	..	..	..	..	3	..	..	..	1	..
Measles .....	2	..	1	..	..	..	..	3	..	..	..	6	3
Whooping-cough.....	..	..	1	..	..	..	..	..	..	..	..	1	28
Scarlatina .....	2	2	..	1	5	..	1	1	3	6	..	21	16
Diarrhœa .....	1	..	..	..	..	1	..	..	1	..	..	3	2
Fever .....	..	..	..	3	61	23	1	..	2	2	..	12	13
Diseases of the Lungs	17	9	6	5	4	9	3	3	6	10	5	77	101
Other causes.....	15	10	12	5	8	5	11	14	13	19	16	108	138
TOTAL NO. OF DEATHS.	37	22	20	14	18	18	16	11	25	37	11	229	301
TOTAL NO. OF BIRTHS.	49	33	20	16	20	32	40	25	34	52	18	339	328

a 1 Inquest.

b Typhoid.

c Typhus.

d 1 Diphtheria.

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 31st Oct.	4 Weeks ending 28th Nov.	4 Weeks ending 26th Dec.	TOTAL.	DISEASES.	5 Weeks ending 31st Oct.	4 Weeks ending 28th Nov.	4 Weeks ending 26th Dec.	TOTAL
1	2	2	5	..... Small-pox .....	8	13	23	44
53	71	52	176	..... Measles .....	32	32	18	82
93	76	46	215	..... Scarlet Fever.....	285	175	158	618
1	..	1	2	..... Diphtheria .....	3	3	..	6
32	51	50	133	..... Whooping-cough .....	3	1	4	8
2	3	1	6	..... Croup .....	2	2	..	4
387	208	204	799	..... Diarrhœa .....	290	139	117	546
2	..	..	2	..... Dysentery .....	11	9	4	24
..	..	..	..	..... Malignant Cholera.....	..	..	..	..
38	31	20	89	..... Erysipelas .....	41	20	18	79
4	18	12	34	..... Continued Fever .....	248	188	113	549
4	3	2	9	..... Typhus .....	268	175	167	608
9	7	1	17	..... Enteric or Typhoid .....	108	81	60	249
55	61	67	183	..... Febricula .....	268	206	161	635
69	76	55	200	..... Ague .....	1	3	1	5
..	..	..	..	..... Rheumatic Fever.....	82	57	61	200
..	..	..	..	..... Puerperal Fever.....	2	1	..	3
872	942	868	2682	..... Bronchitis and Catarrh .....	1132	1138	1063	3333
4	6	2	12	..... Influenza .....	47	34	18	99
48	54	45	147	..... Pleurisy and Pneumonia .....	124	109	72	305
95	73	62	230	..... Phthisis.....	318	270	219	807
37	30	19	86	..... Constitutional Syphilis .....	183	167	159	509
4232	3483	3241	10956	.... Accidents, and all other Diseases.....	4773	3634	3447	11854
6038	5195	4753	15986	TOTAL	8229	6455	5883	20567

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN DECEMBER.			Royal Infirmary, Dr. REED.	Salford Meteorolog. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Inches.		Wet Days							
Royton .....	9.300	29							
Wilmslow ....	8.101	28							
Salford .....	..	..							
Old Trafford ..	8.123	29							
Penketh .....	6.994	29							
Eccles .....	..	..							
Height of barometer cistern above sea level			130 ft.	108 ft.	145 ft.	145 ft.	251 ft.	544 ft.	43 ft.
Barometer.			INS.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level			30.227	30.258	30.269	30.258		30.237	
Highest.....			30.416	30.325	30.322	30.325		29.872	
Lowest.....			28.846	29.883	29.856	29.883		29.414	
Range .....			0.570	0.442	0.466	0.442		0.458	
Temperature.									
Adopted Mean .....			42.2	42.5	40.8	41.6		40.0	
Range for Week .....			13.0	17.8	20.5	23.4		22.0	
Daily Range.....			3.0	5.5	9.8	6.9		11.2	
Maximum in Shade .....			47.0	50.9	53.5	55.5		52.0	
Minimum in Shade .....			34.0	33.1	33.0	32.1		30.0	
Temperature of Dew Point .....			39.2	38.6	36.7	38.6		38.1	
Hygrometrical condition of the Atmosphere.			GRS.	GRS.	GRS.	GRS.		GRS.	
Degree of Humidity (Saturation—1,000)			0.888	0.864	0.856	0.902		0.931	
Prevailing Winds .....				SE	E, S, SE	SE		SE	
Rain .....				0.363	0.410	0.372		0.400	
Ozonometer.									
Moffat .....					3.43	0.42		....	
Sehonbein .....					0.00	....		2.00	



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.] WEEK ENDING SATURDAY, JANUARY 30, 1869. No. 444

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, January the 30th, 1662 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1600; and in the corresponding week of last year it was 1761. The deaths during the week amounted to 71, being at the rate of 1 death to every 23 cases.

Small Pox continue to decline, the numbers for the last three weeks being 15, 7, and 5. The 5 cases for this week occurred in Manchester.

Measles remains much the same as in the preceding week, 10 cases being returned instead of 9. Eight of these occurred in Salford and 2 in Chorlton.

Scarlatina is very prevalent; 44 cases are returned, being 8 more than in the previous week. In the corresponding week of last year the number was 24. Nineteen cases occurred in Manchester, 11 in Salford, 11 in Hulme, and 3 in Chorlton.

There is a slight improvement in the Fever return, 56 cases being reported instead of 61. Sixteen cases were assigned to Continued Fever, 20 to Typhus, and 20 to Typhoid Fever,—15 fever cases were treated in the Manchester Workhouse, 3 in the Royal Infirmary, and 4 in the Chorlton Union Workhouse.

Bronchitis and other acute chest diseases have increased in prevalency during the last three weeks, the numbers for those weeks being 300, 329, and 347.

Not a single case of Whooping-Cough occurred during the week.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 281 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Eighty-four deaths were caused by diseases of the lungs, 40 by Scarlatina, 15 by Fever, and 7 by Measles.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 40·7°; at the Salford Observatory it was 41·9°; at Eccles 40·6°; and at Old Trafford 40 3°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



**RETURN FROM PAUPER, CHARITABLE, AND PUBLIC**  
*New Cases of Disease coming under Treatment*

MANCHESTER.															
Area in Statute Acres .....	Manchester Township 1,645 .....														
Population in 1861 .....	,, ,, 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY					CHILDREN	
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	..	..	..	..	..	1	1	1	2	..	..	..	..	..	1
Measles .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scarlet Fever .....	..	1	1	a1	1	..	4	1	2	..	..	1	5	4	2
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	..	..	..	..	..	..	3	..	..	..	..	..	5	3
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	..	..	..	..	3	..	..	..	..	..
Continued Fever.....	..	..	1	b3	a1	..	5	..	..	..	..	..	..	..	1
Typhus .....	..	..	..	a1	..	..	1	13	1	..	..	1	2	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	2	2	..	..	..	4	..	..
Febricula.....	..	..	2	1	1	5	9	1	..	..	..	1	1	12	1
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	1	1	..	..	2	..	..	18	2	..	2	1	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	5	13	5	9	6	9	47	12	..	51	2	4	10	14	13
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia.....	..	..	..	..	..	1	1	3	..	..	..	..	..	..	..
Phthisis .....	..	1	2	..	1	..	4	8	1	35	..	6	5	4	1
Constitutional Syphilis .....	..	..	..	..	..	..	..	13	..	5	..	..	1	..	1
All other Diseases .....	18	9	14	11	4	13	69	79	23	135	3	5	14	74	86
Accidents .....	2	..	..	..	..	1	3	..	13	79	1	..	..	..	1
<b>TOTAL .....</b>	<b>25</b>	<b>24</b>	<b>26</b>	<b>27</b>	<b>14</b>	<b>30</b>	<b>146</b>	<b>136</b>	<b>44</b>	<b>326</b>	<b>8</b>	<b>18</b>	<b>44</b>	<b>114</b>	<b>110</b>

a Removed to Workhouse.

b 2 Removed to Workhouse.

*Medical Officers to whom the Association*

(1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9) Mr. W. H. CARRUTHERS,	(13) Mr. H. RUNCORN
(2) „ J. BROADBENT,	(6) Dr. LEDWARD.	(10) „ J. PORTER,	(14) „ J. FINLAYS
(3) „ EDWARD MEACHAM,	(7) Mr. J. WESTMORELAND,	(11) „ C. CURRIE RITCHIE,	(15) „ J. OGDEN F
(4) „ JOHN WALSH.	(8) „ J. P. SLEIGHTHOLME,	(12) „	(16) „ J. TEALE,

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



*Week ending the 30th day of January, 1869.*

in the reports of the Association, and has as far as practicable, been taken into account in the conclusions drawn from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Ingham.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipler.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	1	1	3	1	1	1	1	2	1	1	1	4	2
Measles .....	1	1	1	1	1	1	1	1	1	1	1	7	22
Whooping-cough.....	1	1	1	1	1	1	1	1	1	1	1	1	26
Scarlatina .....	6	2	2	2	1	9	3	1	4	9	2	40	5
Diarrhoea .....	1	2	5	1	1	1	2	2	1	1	1	15	11
Fever .....	11	12	11	1	3	8	4	6	8	17	3	84	67
Diseases of the Lungs	11	12	22	2	69	2	12	11	19	20	8	128	122
Other causes.....	11	12	22	2	69	2	12	11	19	20	8	128	122
TOTAL NO. OF DEATHS.	30	30	44	7	13	21	22	21	31	47	15	281	255
TOTAL NO. OF BIRTHS.	50	44	20	13	21	38	38	24	37	44	13	342	339

a 3 Inquests.      b 2 Inquests.      c Typhus.      d 1 Typhus and 1 Continued.  
e 2 Diphtheria and 1 Inquest.

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.      At Pauper, Charitable, and Public Institutions in  
Medical Officer of Health, John Whitmore, M.D.      MANCHESTER and SALFORD.  
Population in 1861, 161680.      Population in 1861, 390,915.

5 Weeks ending 31st Oct.	4 Weeks ending 28th Nov.	4 Weeks ending 26th Dec.	TOTAL.	DISEASES.	5 Weeks ending 31st Oct.	4 Weeks ending 28th Nov.	4 Weeks ending 26th Dec.	TOTAL
1	2	2	5	..... Small-pox .....	8	13	23	44
53	71	52	176	..... Measles .....	32	32	18	82
93	76	46	215	..... Scarlet Fever.....	285	175	158	618
1	1	1	2	..... Diphtheria .....	3	3	1	6
32	51	50	133	..... Whooping-cough .....	3	1	4	8
2	3	1	6	..... Croup .....	2	2	1	4
387	208	204	799	..... Diarrhoea .....	290	139	117	546
2	1	1	2	..... Dysentery .....	11	9	4	24
1	1	1	2	..... Malignant Cholera.....	1	1	1	2
38	31	20	89	..... Erysipelas .....	41	20	18	79
4	18	12	34	..... Continued Fever .....	248	188	113	549
4	3	2	9	..... Typhus .....	268	173	167	603
9	7	1	17	..... Enteric or Typhoid .....	108	81	60	249
55	61	67	183	..... Febricula .....	268	206	161	635
1	1	3	3	..... Ague .....	1	3	1	5
69	76	55	200	..... Rheumatic Fever.....	82	57	61	200
1	1	1	2	..... Puerperal Fever .....	2	1	1	3
872	942	868	2682	..... Bronchitis and Catarrh .....	1132	1138	1063	3333
4	6	2	12	..... Influenza .....	47	34	18	99
48	54	45	147	..... Pleurisy and Pneumonia .....	124	109	72	305
95	73	62	230	..... Phthisis .....	318	270	219	807
37	30	19	86	..... Constitutional Syphilis .....	183	167	159	509
4232	3483	3241	10956	.... Accidents, and all other Diseases.....	4773	3634	3447	11854
6038	5195	4753	15986	TOTAL	8229	6455	5883	20567

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN DECEMBER									
Inches.	Wet Days.		Royal Infirmary, Dr. REED.	Salford Meteorologi- cal Observa- tory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Royton .....	9.300	29							
Wilmslow ....	8.101	28							
Salford .....	.....	.....							
Old Trafford ..	8.123	29							
Penketh .....	6.994	29							
Eccles .....	.....	.....							
Height of barometer cistern above sea level			130 ft.	108 ft.	145 ft.	145 ft.	251 ft.	544 ft.	43 ft.
Barometer.			INS.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.			29.583	29.515	29.519	29.515	29.532	29.522	29.522
Highest.....			30.022	30.035	30.020	30.035	29.612	30.124	30.124
Lowest .....			29.012	28.829	28.738	28.829	28.409	28.903	28.903
Range .....			1.010	1.206	1.282	1.206	1.203	1.221	1.221
Temperature.									
Adopted Mean .....			40.1	41.9	40.3	40.6	39.2	40.3	40.3
Range for Week .....			17.0	23.4	26.0	25.6	27.5	26.4	26.4
Daily Range .....			2.2	9.3	12.6	11.1	12.7	11.6	11.6
Maximum in Shade .....			47.0	53.2	53.0	52.6	52.3	52.4	52.4
Minimum in Shade .....			34.0	29.8	27.0	27.0	24.8	26.0	26.0
Temperature of Dew Point .....			38.2	37.0	37.6	37.2	37.3	37.8	37.8
Hygrometrical condition of the Atmosphere									
Degree of Humidity (Saturation—1,000)			GRS. 0.931	GRS. 0.842	GRS. 0.904	GRS. 0.880	NO RETURNS.	GRS. 0.933	GRS. 0.908
Prevailing Winds .....			.....	S,SSW	SW,S	S,SSW		SE	SE,S
Rain .....			.....	0.887	0.956	0.737		1.040	0.801
Ozonometer.									
Moffat .....			.....	1.00	6.00	4.42		.....	.....
Schonbein .....			.....	.....	1.71	.....		4.20	5.1



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.] WEEK ENDING SATURDAY, FEBRUARY 6, 1869. No. 445

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, February the 6th, 1703 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1662, and in the corresponding week of last year it was 1638. The deaths during the week amounted to 63, being in the proportion of 1 death to every 27 cases.

Small Pox is becoming more frequent, the cases having risen from 5 to 12. Nine cases occurred in Manchester, 2 in Salford, and 1 in Ardwick.

Measles remains the same as in the previous week, 10 cases being returned. One occurred in Manchester, 7 in Salford, 1 in Hulme, and 1 in Chorlton.

There is a considerable decrease in the number of Scarlatina cases, 30 being returned instead of 44. Twelve of these 30 cases occurred in Manchester, 10 in Salford, 4 in Hulme, and 4 in Chorlton. The deaths from this disease in the eleven registration districts have fallen from 40 to 27.

The Fever return is not favorable, the number of cases having risen from 56 to 67. Twenty-six cases were assigned to Continued Fever, 32 to Typhus, and 9 to Typhoid Fever. The greatest increase occurred in the cases of Typhus, which are 12 in excess of the number for the preceding week.

Four cases of Whooping-Cough occurred during the week; in the corresponding week of last year there were 27.

Bronchitis and other acute chest diseases remain much the same as in the previous week, 346 cases being returned instead of 347.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 267 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Seventy-six deaths were caused by diseases of the lungs, 27 by Scarlatina, 11 by Fever, and 8 by Measles.

On the 4th of February, Mr. J. TEALE, the Medical Officer for Greengate, died of Fever incurred in the discharge of his professional duties. In him the Association has lost a warm friend and a constant contributor to the Weekly Return.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 49.2°; at the Salford Observatory it was 48.7°; at Eccles 48.0°; and at Old Trafford 47.6°.

JOHN ROBERTS, M.D., Hon. Sec.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres.....		Manchester Township 1,645 .....													
Population in 1861.....		,, ,, 185,050 .....													
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts.	Workhouse. 7	ROYAL INFIRMARY.					CHILDREN	
									In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14
Small-pox .....	..	a1	1	1	a1	..	4	3	1	..	..	..	1	..	..
Measles .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Scarlet Fever .....	..	2	..	1	1	..	4	1	1	..	..	a1	..	3	2
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
Croup .....	..	..	1	..	..	1	2	..	..	..	..	..	..	..	..
Diarrhoea.....	1	1	..	..	..	1	3	1	..	..	..	..	..	11	3
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	1	1	3	..	..	..	..	..	..	..
Continued Fever.....	1	..	a5	b1	a1	..	8	..	..	..	..	..	..	..	2
Typhus .....	..	..	a1	..	..	1	2	14	6	..	b1	b1	1	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	..	2	1	..	..	..	..	..
Febricula.....	..	..	..	1	..	1	2	5	..	1	..	1	..	23	3
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	2	..	2	1	5	..	..	5	1	3	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	10	7	3	9	3	11	43	13	2	42	6	10	10	11	16
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	..	..	..	..	..	1	1	4	1	..	..	..	..	..	1
Phthisis .....	..	..	1	..	..	..	1	3	..	26	2	5	4	4	2
Constitutional Syphilis .....	..	..	..	..	..	1	1	6	..	4	..	..	..	..	1
All other Diseases .....	11	13	12	7	6	17	66	52	22	142	3	5	5	80	73
Accidents .....	2	2	..	1	..	1	6	..	19	108	1	..	1	..	..
TOTAL .....	25	26	26	21	14	37	149	105	54	329	14	26	22	135	105

a Removed to Workhouse.      b Removed to Royal Infirmary.      c 1 Removed to Workhouse.

Medical Officers to whom the Association

(1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9) Mr. W. H. CARRUTHERS,	(13) Mr. H. RUNCOR
(2) „ J. BROADBENT,	(6) Dr. LEDWARD,	(10) „ J. PORTER,	(14) „ J. FINLAYS
(3) „ EDWARD MEACHAM,	(7) Mr. J. WESTMORELAND,	(11) „ C. CURRIE RITCHIE,	(15) „ J. OGDEN FL
(4) „ JOHN WALSH.	(8) „ J. P. SLEIGHTHOLME,	(12) „	(16) „ J. TEALE,

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

## REPORTS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 6th day of February, 1869.

SALFORD.				HULME.			CHORLTON.		ARDWICK	PENDLETON AND PENDLEBURY.							
1,329 .....				477.....			646...		508.	2650.....				Area in Statute Acres.			
70,967. ....				68,209. ..			44,850..		21739	24,448.....				Population in 1861.			
POOR LAW DISTRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS													
Regent Road.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.		DEATHS.	
17	18	19	20	21	22	23	24	25	26	27	28						
..	..	2	..	..	..	..	..	..	..	1	..	12	..	Small-pox .....	..		
..	..	7	..	..	..	1	..	1	..	..	..	10	4	Measles .....	..		
..	..	8	..	4	..	..	..	2	..	..	2	30	26	Scarlet Fever.....	4		
..	..	..	..	..	..	..	..	..	..	..	..	..	2	Diphtheria .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	4	27	Whooping-cough ....	..		
..	..	..	..	..	..	..	..	..	..	..	..	2	..	Croup .....	1		
..	..	4	2	..	1	..	..	..	..	4	2	35	45	Diarrhœa .....	..		
..	..	1	..	..	..	..	2	..	..	..	..	3	2	Dysentery .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..		
1	..	..	..	..	..	..	..	..	..	1	1	7	12	Erysipelas .....	1		
..	3	4	..	..	..	..	..	5	..	..	1	26	23	Continued Fever ....	1		
1	..	2	..	..	..	..	21	..	..	..	3	32	16	Typhus .....	3		
1	..	3	..	..	..	..	..	2	..	..	..	9	6	Enteric or Typhoid ..	2		
2	..	2	..	..	4	7	6	5	..	3	6	73	28	Febricula .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..		
..	..	2	1	1	..	1	1	..	..	2	1	28	49	Rheumatic Fever ....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....	..		
9	..	41	5	7	7	8	13	12	10	11	30	323	247	Bronchitis & Catarrh	10		
..	..	2	..	..	..	..	..	..	..	..	..	4	5	Influenza .....	..		
..	..	3	2	..	1	..	1	1	..	1	2	19	25	Pleurisy & Pneumonia.	2		
..	..	12	..	3	2	..	..	4	..	1	4	77	68	Phthisis .....	7		
..	..	5	1	..	..	..	2	..	..	1	1	26	54	Constitutional Syphilis	2		
20	2	87	1	14	11	14	25	17	4	25	60	736	745	All other diseases ....	27		
1	..	54	..	3	..	1	2	13	..	32	2	247	254	Accidents .....	3		
35	5	239	12	32	26	32	53	62	14	82	115	1703	1638	TOTAL .....	63		

indebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18) ..  
(19) .. J. O. BRADBURY,  
(20) Dr. BRADDON,

(21) Mr. S. WOODCOCK,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON.  
(24) .. JOSEPH FOSTER,

(25) Mr. W. C. BARNISH,  
(26) .. J. V. L. WESTMACOTT,  
(27) .. R. P. O. GORMAN,  
(28) .. GEORGE CLEMENTS.

the reports of the Association, and has as far as practicable, been taken into account in the conclusions drawn from the weekly returns.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomson.	Greengate Dis., Mr. Bowel.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corresponding week last year.
Small Pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	3	1	..	1	..	..	..	2	..	1	..	8	1
Whooping-cough .....	..	..	..	..	..	..	..	..	1	..	..	1	19
Scarlatina .....	2	2	4	1	1	4	3	3	..	6	1	27	13
Diarrhœa .....	..	..	..	1	1	..	..	..	..	1	..	3	5
Fever .....	1	3	4	..	..	6	..	1	1	..	..	11	16
Diseases of the Lungs .....	10	14	2	1	5	10	3	6	8	9	8	76	64
Other causes .....	15	19	22	68	111	4	12	12	11	19	8	141	120
<b>TOTAL NO. OF DEATHS.</b>	<b>31</b>	<b>39</b>	<b>32</b>	<b>12</b>	<b>18</b>	<b>19</b>	<b>18</b>	<b>24</b>	<b>21</b>	<b>36</b>	<b>17</b>	<b>267</b>	<b>244</b>
<b>TOTAL NO. OF BIRTHS.</b>	<b>40</b>	<b>57</b>	<b>20</b>	<b>23</b>	<b>16</b>	<b>42</b>	<b>26</b>	<b>16</b>	<b>28</b>	<b>51</b>	<b>18</b>	<b>337</b>	<b>361</b>

a 3 Inquests.

b 1 Inquest.

c Typhus.

## Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 31st Oct.	4 Weeks ending 28th Nov.	1 Weeks ending 26th Dec.	TOTAL.	DISEASES.	5 Weeks ending 31st Oct.	4 Weeks ending 28th Nov.	1 Weeks ending 26th Dec.	TOTAL
1	2	2	5	..... Small-pox .....	8	13	23	44
53	71	52	176	..... Measles .....	32	32	18	82
93	76	46	215	..... Scarlet Fever .....	285	175	158	618
1	..	1	2	..... Diphtheria .....	3	3	..	6
32	51	50	133	..... Whooping-cough .....	3	1	4	8
2	3	1	6	..... Croup .....	2	2	..	4
387	208	204	799	..... Diarrhœa .....	290	139	117	546
2	..	..	..	..... Dysentery .....	11	9	4	24
..	..	..	..	..... Malignant Cholera .....	..	..	..	..
38	31	20	89	..... Erysipelas .....	41	20	18	79
4	18	12	34	..... Continued Fever .....	248	188	113	549
4	3	2	9	..... Typhus .....	268	175	167	603
9	7	1	17	..... Enteric or Typhoid .....	108	81	60	249
55	61	67	183	..... Febricula .....	268	206	161	635
69	76	55	200	..... Ague .....	1	3	1	5
..	..	..	..	..... Rheumatic Fever .....	82	57	61	200
872	942	868	2682	..... Puerperal Fever .....	2	1	..	3
4	6	2	12	..... Bronchitis and Catarrh .....	1132	1138	1063	3333
48	54	45	147	..... Influenza .....	47	34	18	99
95	73	62	230	..... Pleurisy and Pneumonia .....	124	109	72	305
37	30	19	86	..... Phthisis .....	318	270	219	807
4232	3483	3241	10956	..... Constitutional Syphilis .....	183	167	159	509
6038	5195	4753	15986	..... Accidents, and all other Diseases .....	4773	3634	3447	11854
				<b>TOTAL</b>	<b>8229</b>	<b>6455</b>	<b>5883</b>	<b>20567</b>

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN JANUARY.				Royal Infirmary, Dr. REED.		Salford Meteorolog. Observatory, T. MACKERETH, Esq.		Old Trafford, G. V. VERNON, Esq.		Eccles, T. MACKERETH Esq.		Wilmslow, J. THOMPSON, Esq.		Royton, J. HEAP, Esq.		Penketh, Warrington L. W. REYNOLDS Esq.	
Inches.	Wet Days.																
Royton .....	2.840	..	17														
Penketh .....	2.785	..	20														
Old Trafford ..	2.686	..	21														
Wilmslow .....	..	..	..														
Salford .....	..	..	..														
Eccles .....	..	..	..														
Height of barometer cistern above sea level				130 ft.	108 ft.	145 ft.	145 ft.	251 ft.	544 ft.	43 ft.							
<b>Barometer.</b>				INS.	INS.	INS.	INS.	INS.	INS.	INS.							
Mean @ 32° F., and reduced to sea level					29.627	29.648	29.627		29.616	29.625							
Highest .....					30.053	30.038	30.053		29.680	30.142							
Lowest .....					28.641	28.764	28.641		28.300	28.834							
Range .....					1.412	1.274	1.412		1.380	1.308							
<b>Temperature.</b>																	
Adopted Mean .....					48.7	47.6	48.0		45.8	47.7							
Range for Week .....					21.0	28.3	26.1		24.3	26.3							
Daily Range .....					10.5	14.3	11.8		12.9	12.7							
Maximum in Shade .....					58.8	61.8	60.5		57.0	62.3							
Minimum in Shade .....					37.8	33.5	34.4		32.7	36.0							
Temperature of Dew Point .....					43.3	44.0	44.2		43.2	44.7							
<b>Hygrometrical condition of the Atmosphere.</b>																	
Degree of Humidity (Saturation—1,000)					GRS. 0.863	GRS. 0.887	GRS. 0.874		GRS. 0.905	GRS. 0.894							
Prevailing Winds .....					SSW	S,SE,SW	SSW		S,SW	S,SW							
Rain .....					1.049	1.104	1.086		1.100	1.115							
<b>Ozonometer.</b>																	
Moffat .....					....	6.71	4.57		....	6.10							
Schonbein .....					....	2.28	....		4.50	....							

February 6, 1869.

JOHN HEAP, Royton, Oldham

Pawlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.] WEEK ENDING SATURDAY, FEBRUARY 13, 1869. No. 446

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, February the 13th, 1705 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1703, and in the corresponding week of last year it was 1633. The deaths during the week amounted to 62, being in the proportion of 1 death to every 27 cases.

Small Pox is becoming very prevalent. Twenty-four cases are returned; last week the number was 12. Twenty-three cases occurred in Manchester and 1 in Salford. Seven of the former were treated in the Manchester Workhouse, and 8 in the Royal Infirmary.

There is a slight increase in the cases of Measles, 13 being returned instead of 10. Eight of these occurred in Salford and 5 in Chorlton.

There is a slight decrease in the cases of Scarlatina, the number having fallen from 30 to 28. Four of the cases were observed in Manchester, 13 in Salford, 6 in Hulme, 4 in Chorlton, and 1 in Ardwick. In the corresponding week of last year the number was 29.

There is this week an improvement in the Fever returns, the number having fallen from 67 to 54. Twenty-four cases were assigned to Continued Fever, 22 to Typhus, and 8 to Typhoid Fever. In the corresponding week of last year the number of Fever cases was 61.

The cases of Bronchitis and other acute chest diseases have declined from 346 to 309.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 258 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Eighty-five deaths were caused by diseases of the lungs, 23 by Scarlatina, 18 by Fever, 7 by Diarrhœa, and 4 by Measles.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 47.5°; at the Salford Observatory it was 47.3°; at Royton, 44.4; and at Eccles 46.4.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS.

33, Pall Mall, Manchester.



# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS

*New Cases of Disease coming under Treatment During the Year 1861*

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	" " 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 8	Workhouse. 7	ROYAL INFIRMARY.					CHILDREN		
									In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	City Gaol. 15
Small-pox .....	..	..	..	1	..	7	8	7	8	..	..	..	..	..	..	..
Measles .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scarlet Fever .....	..	..	..	..	..	..	..	..	..	..	..	..	1	2	1	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	1	..	..	..	..	2	3	2	..	..	..	..	1	3	7	3
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	1	1	2	..	..	..	..	..	..	..	..
Continued Fever.....	1	..	..	..	..	..	1	2	..	..	..	..	..	..	1	..
Typhus .....	..	..	a1	..	..	2	3	7	3	..	..	..	1	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..
Febricula.....	2	..	1	1	..	2	6	3	1	..	1	..	1	15	4	3
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	2	..	..	..	2	..	5	14	..	..	1	1	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	1	7	3	7	4	6	28	18	..	50	3	2	11	22	14	5
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2
Pleurisy and Pneumonia....	1	..	..	..	..	1	2	4	1	..	..	..	..	1	..	2
Phthisis .....	..	1	3	..	..	..	4	5	1	28	1	5	5	5	..	1
Constitutional Syphilis .....	..	..	..	..	..	..	..	11	..	3	..	..	..	..	..	2
All other Diseases .....	23	12	19	9	5	15	83	59	19	134	4	4	5	60	71	4
Accidents .....	1	..	..	3	1	1	6	..	13	136	..	..	1	..	..	..
TOTAL .....	30	20	29	21	10	37	147	120	52	365	9	11	27	109	100	22

a Removed to Workhouse.

*Medical Officers to whom the Association are indebted for their services during the year 1861*

(1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9) Mr. W. H. CARRUTHERS,	(13) Mr. H. RUNCORN
(2) „ J. BROADBENT,	(6) Dr. LEDWARD,	(10) „ J. PORTER,	(14) „ J. FINLAYSON
(3) „ EDWARD MEACHAM,	(7) Mr. J. WESTMORELAND,	(11) „ C. CURRIE RITCHIE,	(15) „ J. OGDEN FLEMING
(4) „ JOHN WALSH.	(8) „ J. P. SLEIGHTHOLME,	(12) „	(16) „ J. TEALE,

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

## REPORTS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 13th day of February, 1869.

SALFORD.					HULME.			CHORLTON.		ARDWICK	PENDLETON AND PENDLEBURY.						DEATHS.
... 1,329 .....					... 477. ....			... 646. ...		508.	..... 2650.....				Area in Statute Acres.		
... 70,967. ....					... 68,209. ...			... 44,850..		21739	..... 24,448.....				Population in 1861.		
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS												DISEASES.
	Regent Road.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.			
6	17	18	19	20	21	22	23	24	25	26	27	28					
	..	..	1	..	..	..	..	..	..	..	..	..	24	2	Small-pox .....	..	
	..	..	8	..	..	..	..	1	..	..	..	4	13	5	Measles .....	1	
5	..	2	6	..	5	1	..	..	4	1	..	..	28	29	Scarlet Fever. ....	1	
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..	
	..	..	..	..	..	..	..	..	..	..	..	..	1	28	Whooping-cough ....	..	
	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Croup .....	..	
	..	..	2	1	1	..	..	..	..	1	..	3	27	38	Diarrhoea .....	..	
1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	Dysentery .....	..	
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..	
	..	..	1	..	..	..	..	..	1	..	1	..	6	9	Erysipelas .....	1	
	..	7	3	..	1	..	1	..	3	3	..	2	24	33	Continued Fever ....	..	
	3	..	1	..	..	..	1	..	..	..	..	3	22	26	Typhus .....	3	
1	..	..	3	..	..	..	..	..	2	..	..	..	8	2	Enteric or Typhoid ..	2	
	1	6	4	..	2	5	5	..	7	..	2	3	69	59	Febricula .....	..	
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..	
	..	..	3	..	1	..	..	..	..	..	1	3	31	57	Rheumatic Fever ....	..	
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....	..	
12	11	..	39	4	9	7	5	5	6	6	8	20	285	254	Bronchitis & Catarrh	7	
	..	..	4	..	..	..	..	..	..	..	..	..	6	4	Influenza .....	..	
1	1	..	2	..	..	2	...	..	2	..	..	..	18	29	Pleurisy & Pneumonia.	2	
1	..	..	10	..	3	..	1	2	5	2	3	4	86	73	Phthisis .....	9	
	3	..	5	2	..	..	..	1	..	..	..	4	31	45	Constitutional Syphilis	..	
7	18	5	88	3	15	7	14	26	31	2	30	78	777	717	All other diseases ....	34	
2	4	..	40	..	..	1	1	..	13	..	29	2	248	222	Accidents .....	2	
10	41	20	220	10	37	23	28	35	74	15	74	126	1705	1633	TOTAL .....	62	

is indebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18) ..  
(19) .. J. O. BRADBURY,  
(20) Dr. BRADDON,

(21) Mr. S. WOODCOCK,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON.  
(24) .. JOSEPH FOSTER,

(25) Mr. W. C. BARNISH,  
(26) .. J. V. L. WESTMACOTT,  
(27) .. R. P. O. GORMAN,  
(28) .. GEORGE CLEMENTS.

the reports of the Association, and has as far as practicable, been taken into account in the conclusions drawn from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bowe.	Regent-rd. Dis., Mr. Tuppel.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	1	..	..	..	..	..	..	..	..	..	..	1	..
Measles .....	1	..	..	..	..	..	..	..	..	..	3	4	3
Whooping-cough.....	..	..	..	..	..	..	..	..	..	..	1	1	12
Scarlatina .....	2	2	1	..	..	7	2	3	1	5	..	23	26
Diarrhoea .....	1	1	2	..	1	..	..	1	..	1	..	7	6
Fever .....	6	2	2	1	..	62	62	61	1	1	..	18	7
Diseases of the Lungs	15	10	12	7	6	3	3	2	10	16	1	85	74
Other causes.....	15	14	21	3	5	5	6	11	11	20	8	119	132
TOTAL NO. OF DEATHS.	41	29	38	11	12	17	13	18	23	43	13	258	260
TOTAL NO. OF BIRTHS.	52	48	27	15	27	29	27	36	37	53	14	370	373

a 3 Inquests.      b Typhus.      c 1 Inquest.

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 31st Oct.	4 Weeks ending 28th Nov.	4 Weeks ending 26th Dec.	TOTAL.	DISEASES.	5 Weeks ending 31st Oct.	4 Weeks ending 28th Nov.	4 Weeks ending 26th Dec.	TOTAL
1	2	2	5	..... Small-pox .....	8	13	23	44
53	71	52	176	..... Measles .....	32	32	18	82
93	76	46	215	..... Scarlet Fever.....	285	175	158	618
1	..	1	2	..... Diphtheria .....	3	3	..	6
32	51	50	133	..... Whooping-cough .....	3	1	4	8
2	3	1	6	..... Croup .....	2	2	..	4
387	208	204	799	..... Diarrhoea .....	290	139	117	546
2	..	..	2	..... Dysentery .....	11	9	4	24
..	..	..	..	..... Malignant Cholera.....	..	..	..	..
38	31	20	89	..... Erysipelas .....	41	20	18	79
4	18	12	34	..... Continued Fever .....	248	188	113	549
4	3	2	9	..... Typhus .....	268	173	167	608
9	7	1	17	..... Enteric or Typhoid .....	108	81	60	249
55	61	67	183	..... Febricula .....	268	206	161	635
..	..	3	3	..... Ague .....	1	3	1	5
69	76	55	200	..... Rheumatic Fever.....	82	57	61	200
..	..	..	..	..... Puerperal Fever.....	2	1	..	3
872	942	868	2682	..... Bronchitis and Catarrh .....	1132	1138	1063	3333
4	6	2	12	..... Influenza.....	47	34	18	99
48	54	45	147	..... Pleurisy and Pneumonia .....	124	109	72	305
95	73	62	230	..... Phthisis.....	318	270	219	807
37	30	19	86	..... Constitutional Syphilis .....	183	167	159	509
4232	3483	3241	10956	....Accidents, and all other Diseases.....	4773	3634	3447	11854
6038	5195	4753	15986	TOTAL	8229	6455	5883	20567

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN JANUARY.				Royal Infirmary, Dr. REED.	Salford Meteorologl. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L. W. Reynolds Esq.					
	Inches.	Wet Days.													
Royton .....	2.840	.....	17												
Penketh .....	2.785	.....	20												
Old Trafford ..	2.686	.....	21												
Wilmslow ....	2.768	.....	16												
Salford .....	.....	.....	..												
Eccles .....	.....	.....	..												
Height of barometer cistern above sea level				130 ft.	108 ft.	145 ft.	145 ft.	251 ft.	544 ft.	43 ft.					
<b>Barometer.</b>				INS.	INS.	INS.	INS.	INS.	INS.	INS.					
Mean @ 32° F., and reduced to sea level					29.794		29.794	29.805	29.768	29.787					
Highest.....					30.185		30.185	30.068	29.700	30.272					
Lowest .....					29.241		29.241	29.104	28.709	29.272					
Range .....					0.944		0.944	0.964	0.991	1.000					
<b>Temperature.</b>				NO RETURN.	NO RETURN.	NO RETURN.	NO RETURN.	NO RETURN.	NO RETURN.	NO RETURN.					
Adopted Mean .....											47.3	46.4	46.3	44.4	46.8
Range for Week .....											21.8	24.8	22.1	26.4	25.2
Daily Range .....											7.3	8.4	8.3	11.6	7.9
Maximum in Shade .....											57.3	56.5	55.7	55.4	55.7
Minimum in Shade .....											35.5	31.7	33.6	29.0	31.5
Temperature of Dew Point .....											42.5	41.9	41.6	41.2	42.3
<b>Hygrometrical condition of the Atmosphere.</b>															
Degree of Humidity (Saturation—1,000)					GRS. 0.844		GRS. 0.833	GRS. 0.838	GRS. 0.853	GRS. 0.841					
Prevailing Winds .....				WSW, W		WSW, W	SW	SW	W, SW						
Rain .....				1.578		1.401	0.738	2.160	0.447						
<b>Ozonometer.</b>															
Moffat .....				0.71		5.85	....	....	....						
Schonbein .....				....		....	7.71	3.80	4.90						



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.] WEEK ENDING SATURDAY, FEBRUARY 20, 1869. No. 447

#### DISEASES.—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, February the 20th, 1681 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1705, and in the corresponding week of last year it was 1554. The deaths during the week amounted to 61, being at the rate of 1 death to every 27 cases.

The present return is favorable, there being a decrease in all the principal diseases.

The decrease under Small Pox is considerable, the number having fallen from 24 to 8. These cases occurred in Manchester; 2 were treated in the Workhouse, and 2 in the Royal Infirmary.

The return of Measles exhibits a decrease of 3,—10 cases are returned, being the same number as in the week before last. This disease appears to prevail in Salford to a greater extent than in Manchester. Two cases occurred in Manchester, 6 in Salford, and 2 in Ardwick.

Scarlatina, which has prevailed to a great extent of late in Manchester and Salford continues to decline, the number has fallen from 28 to 19.

Diarrhoea and Dysentery have prevailed this week to a greater extent than usual for the time of the year. The number of cases having risen from 28 to 52. Twenty-four of these cases were treated at the Hospitals for Children.

The Fever return continues to be favorable. This week 42 cases occurred, being 12 less than in the preceding week. In the corresponding week of last year the number was 72. Seventeen of these 42 cases were assigned to Continued Fever, 19 to Typhus, and 6 to Typhoid Fever; 10 of the Fever cases were treated in the Manchester Workhouse, 4 in the Salford Workhouse, 1 in the Royal Infirmary, and 27 at their homes.

There is a slight decrease in the cases of Bronchitis and other acute chest diseases, the number having fallen from 309 to 302. In the corresponding week of last year the number was 275.

#### DEATHS.—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 259 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Eighty-one deaths were caused by diseases of the lungs, 21 by Scarlatina, 9 by Fever, 6 by Measles, 5 by Diarrhoea, and 2 by Small-Pox.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 45.5°; at the Salford Observatory it was 46.1°; at Royton, 43.8; and at Eccles 45.1°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER



# MANCHESTER AND SALE

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS. New Cases of Disease coming under Treatment During the Year 1861.

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	,, ,, 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN		
	1	2	3	4	5	6		7	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.	City Gaol.
Small-pox .....	1	..	1	..	..	1	3	2	2	..	..	..	1	..	..	..
Measles .....	..	1	..	..	..	..	1	..	..	..	..	..	..	..	1	..
Scarlet Fever .....	..	..	..	..	..	..	..	..	2	..	..	..	1	..	1	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	..	1	..	..	3	4	..	..	2	..	..	..	13	11	..
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	..	..	2	..	..	..	..	1	..	..	..
Continued Fever.....	5	..	2	1	..	..	8	..	..	..	..	..	..	..	1	..
Typhus .....	..	..	1	..	..	1	2	9	1	..	..	..	3	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	..
Febricula.....	1	..	2	1	..	3	7	9	2	..	1	1	1	11	2	..
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	1	1	1	3	..	6	8	..	1	2	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	1	11	4	2	3	8	29	15	..	48	4	..	8	15	16	4
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	..	..	..	1	..	..	1	5	1	..	..	..	..	..	1	2
Phthisis .....	..	1	..	..	1	..	2	4	2	17	2	4	5	6	2	1
Constitutional Syphilis .....	..	..	..	..	..	..	..	13	..	7	..	..	..	..	..	3
All other Diseases .....	13	10	9	6	4	12	54	62	35	169	5	3	10	89	85	5
Accidents .....	..	..	..	..	..	1	1	..	14	109	..	..	3	..	1	..
TOTAL .....	21	23	20	12	9	30	115	122	65	360	12	9	36	135	121	20

Medical Officers to whom the Association are indebted for their services.

- |                       |                           |                           |                         |
|-----------------------|---------------------------|---------------------------|-------------------------|
| (1) Mr. R. M. MANN.   | (5) Mr. OCTAVIUS DEAN,    | (9) Mr. W. H. CARRUTHERS, | (13) Mr. H. RUNCORN     |
| (2) „ J. BROADBENT,   | (6) Dr. LEDWARD,          | (10) „ J. PORTER,         | (14) „ J. FINLAYSON     |
| (3) „ EDWARD MEACHAM, | (7) Mr. J. WESTMORELAND,  | (11) „ C. CURRIE RITCHIE, | (15) „ J. OGDEN FLEMING |
| (4) „ JOHN WALSH.     | (8) „ J. P. SLEIGHTHOLME, | (12) „                    | (16) „ J. TEALE,        |

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



SANITARY ASSOCIATION.																	
TOWNS OF MANCHESTER AND ADJOINING DISTRICTS																	
Week ending the 20th day of February, 1869.																	
SALFORD.					HULME.			CHORLTON.		ARDWICK	PENDLETON AND PENNLEBURY.						
... 1,329 .....					... 477 .....			... 646 ...		508.	... 2650 .....				Area in Statute Acres.		
... 70,967. ....					... 68,209. ...			... 44,850..		21739	.....24,448 .....				Population in 1861.		
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS												
Regent Road.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.			
17	18	19	20	21	22	23	24	25	26	27	28						
..	..	..	..	..	..	..	..	..	..	..	..	8	..	Small-pox .....			
2	..	4	..	..	..	..	..	..	1	1	..	10	1	Measles .....			
..	..	6	..	2	..	3	..	3	1	..	..	19	15	Scarlet Fever.....			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....			
2	..	..	..	..	..	..	..	..	..	..	..	2	24	Whooping-cough ....			
..	..	..	..	..	..	1	..	..	..	..	..	1	..	Croup .....			
5	..	2	3	..	1	1	2	1	..	2	1	50	34	Diarrhœa .....			
..	..	1	..	..	..	..	..	..	..	..	..	2	3	Dysentery .....			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..			
1	..	..	..	1	..	..	..	1	..	..	..	6	5	Erysipelas .....			
..	4	3	..	..	..	..	..	1	..	..	..	17	25	Continued Fever ....			
3	..	1	..	..	..	..	..	..	..	..	..	19	42	Typhus .....			
..	3	1	..	..	..	..	..	..	..	..	..	6	5	Enteric or Typhoid ..			
2	1	1	4	..	2	1	6	2	1	..	2	3	28	Febricula .....			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....			
2	1	..	..	..	..	1	..	..	2	2	..	38	37	Rheumatic Fever ....			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....			
6	7	..	36	3	2	3	5	10	12	3	8	27	252	Bronchitis & Catarrh			
4	..	..	4	..	..	2	..	..	..	..	..	10	5	Influenza .....			
2	1	..	5	..	..	1	..	1	..	..	1	21	18	Pleurisy & Pneumonia.			
..	..	..	11	..	2	2	..	1	..	2	1	64	82	Phthisis .....			
..	..	..	5	1	..	..	2	..	..	..	3	34	42	Constitutional Syphilis			
..	14	7	83	2	12	5	14	25	29	6	27	80	681	All other diseases ....			
2	..	..	54	..	..	..	1	11	..	23	1	220	255	Accidents .....			
9	29	12	220	9	21	14	32	42	61	13	67	117	1554	TOTAL .....			

indebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18)  
(19) ,, J. O. BRADBURY,  
(20)Dr. BRADDON,

(21) Mr. S. WOODCOCK,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON.  
(24) ,, JOSEPH FOSTER,

(25) Mr. W. C. BARNISH,  
(26) ,, J. V. L. WESTMACOTT,  
(27) ,, R. P. O. GORMAN,  
(28) ,, GEORGE CLEMENTS.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Aneoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C.F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bowei.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnsbp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	1	1	..	..	..	..	..	..	..	..	2	..
Measles .....	1	1	..	..	..	..	1	3	..	..	..	6	1
Whooping-cough .....	..	..	1	..	..	..	..	..	..	..	..	1	9
Scarlatina .....	4	..	3	..	..	1	..	4	3	6	..	21	23
Diarrhoea .....	2	2	..	1	..	..	..	..	..	..	..	5	6
Fever .....	..	1	4	1	..	..	2	..	1	..	..	9	22
Diseases of the Lungs .....	10	10	9	8	3	16	7	..	5	12	1	31	66
Other causes .....	14	18	14	4	10	7	17	10	16	21	3	134	117
TOTAL NO. OF DEATHS.	31	33	32	14	13	24	27	17	25	39	4	259	244
TOTAL NO. OF BIRTHS.	48	32	15	9	15	36	31	24	40	62	25	337	335

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 31st Oct.	4 Weeks ending 23th Nov.	4 Weeks ending 26th Dec.	TOTAL.	DISEASES.	5 Weeks ending 31st Oct.	4 Weeks ending 23th Nov.	4 Weeks ending 26th Dec.	TOTAL
1	2	2	5	..... Small-pox .....	8	13	23	44
53	71	52	176	..... Measles .....	32	32	18	82
93	76	46	215	..... Scarlet Fever .....	285	175	158	618
1	..	1	2	..... Diphtheria .....	3	3	..	6
32	51	50	133	..... Whooping-cough .....	3	1	4	8
2	3	1	6	..... Croup .....	2	2	..	4
387	208	204	799	..... Diarrhoea .....	290	139	117	546
2	..	..	2	..... Dysentery .....	11	9	4	24
..	..	..	..	..... Malignant Cholera .....	..	..	..	..
38	31	20	89	..... Erysipelas .....	41	20	18	79
4	18	12	34	..... Continued Fever .....	248	188	113	549
4	3	2	9	..... Typhus .....	268	175	167	603
9	7	1	17	..... Enteric or Typhoid .....	108	81	60	249
55	61	67	183	..... Febricula .....	268	206	161	635
..	..	3	3	..... Ague .....	1	3	1	5
69	76	55	200	..... Rheumatic Fever .....	32	57	61	200
..	..	..	..	..... Puerperal Fever .....	2	1	..	3
872	942	868	2682	..... Bronchitis and Catarrh .....	1132	1138	1063	3333
4	6	2	12	..... Influenza .....	47	34	18	99
48	54	45	147	..... Pleurisy and Pneumonia .....	124	109	72	305
95	73	62	230	..... Phthisis .....	318	270	219	807
37	30	19	86	..... Constitutional Syphilis .....	183	167	159	509
4232	3483	3241	10956	..... Accidents, and all other Diseases .....	4773	3634	3447	11854
6038	5195	4753	15986	TOTAL	8229	6455	5883	20567

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN JANUARY.				Royal Infirmary, Dr. REED.	Salford Meteorolog. Observatory, T. Mackereth, Esq.	Old Trafford, G.V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L.W. Reynolds Esq.
Inches. Wet Days.										
Royton .....	2.840	..	17							
Penketh .....	2.785	..	20							
Old Trafford ..	2.686	..	21							
Wilmslow ....	2.768	..	16							
Salford .....	....	..	..							
Eccles .....	....	..	..							
Height of barometer cistern above sea level				130 ft.	108 ft.	145 ft.	145 ft.	251 ft.	544 ft.	43 ft.
Barometer.				INS.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level					29.912		29.912	29.915	29.895	29.905
Highest .....					30.203		30.203	30.126	29.730	30.315
Lowest .....					29.499		29.499	29.402	29.042	29.576
Range .....					0.704		0.704	0.724	0.688	0.745
Temperature.										
Adopted Mean .....					46.1		45.1	44.8	43.8	45.7
Range for Week .....					15.4		20.0	17.6	19.7	22.5
Daily Range .....					7.0		10.1	8.8	11.2	11.9
Maximum in Shade .....					53.1		53.0	52.3	51.3	54.7
Minimum in Shade .....					37.7		33.0	34.7	31.6	32.2
Temperature of Dew Point .....					41.8		41.4	40.0	42.8	42.7
Hygrometrical condition of the Atmosphere.										
Degree of Humidity (Saturation—1,000)					GRS. 0.860		GRS. 0.872	GRS. 0.831	GRS. 0.926	GRS. 0.892
Prevailing Winds .....					SW		SW	SW	SW	S,SW
Rain .....					0.687		0.532	0.574	0.980	0.370
Ozonometer.										
Moffat .....					0.85		3.14	....	....	....
Schonbein .....					....		....	6.14	4.20	4.60



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX. WEEK ENDING SATURDAY, FEBRUARY 27, 1869. No. 448

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, February the 27th, 1452 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1681, and in the corresponding week of last year it was 1520. The deaths during the week amounted to 59, being in the proportion of 1 death to every 24 cases.

The return continues to be favorable.

Small Pox steadily declines, the numbers of cases for the last three weeks being 24, 8, and 4. These 4 cases were treated in the Manchester Workhouse.

There is on the other hand an increase in the cases of Measles, 19 being returned instead of 10,—5 cases occurred in Manchester, 9 in Salford, 4 in Hulme, and 1 in Ardwick.

The improvement in the return of Scarlatina still continues, the numbers for the last three weeks being 28, 19, and 16. Not a single case occurred this week in Manchester, while 9 were observed in Salford, 3 in Hulme, and 4 in Chorlton.

The increase in the cases of Diarrhoea and Dysentery reported last week is not maintained, 30 being returned instead of 52.

There is this week a considerable decrease in the number of cases of Bronchitis and other acute chest diseases, the number has fallen from 302 to 252.

The Fever return remains much the same as in the preceding week, 44 being returned instead of 42. Twenty-one cases were assigned to Continued Fever, 17 to Typhus, and 6 to Typhoid Fever.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 258 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Eighty-nine cases were caused by diseases of the lungs, 21 by Scarlatina, 9 by Fever, and 7 by Measles.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 40·9°; at the Salford Observatory it was 41·9°; at Eccles, 41·9°; and at Old Trafford 41·8.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS. New Cases of Disease coming under Treatment During the Year 1861.

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	" " 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN		City Gaol.
	1	2	3	4	5	6		7	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.	
Small-pox .....	..	..	..	..	..	..	..	4	..	..	..	..	..	..	..	..
Measles .....	3	..	..	..	..	..	3	..	..	..	..	..	..	1	1	..
Scarlet Fever .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	..	..	..	..	2	2	..	..	..	..	..	..	7	1	2
Dysentery .....	1	..	..	..	..	1	2	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	1	..	..	..	..	..	1	2	..	..	..	..	..	..	..	..
Continued Fever.....	1	..	a1	a2	a5	..	9	..	..	..	..	..	..	..	..	..
Typhus .....	..	..	..	..	..	3	3	8	3	..	..	1	..	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..
Febricula.....	..	..	a4	2	..	1	7	7	..	..	..	..	..	7	2	2
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	4	..	..	..	4	..	..	5	..	1	6	1	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	2	12	2	2	5	11	34	10	..	42	6	5	10	9	8	3
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	..	..	..	..	..	2	2	2	..	..	..	1	2	1	1	..
Phthisis .....	..	..	1	..	..	1	2	4	1	25	3	..	1	3	2	1
Constitutional Syphilis .....	2	..	..	..	..	..	2	16	..	5	..	..	..	..	1	2
All other Diseases .....	13	10	7	9	2	16	57	70	27	139	3	3	9	67	76	6
Accidents .....	3	1	1	1	..	2	8	..	10	105	..	..	2	..	..	..
TOTAL .....	26	23	20	16	12	39	136	123	41	321	12	11	32	96	93	16

a Removed to Workhouse.

### Medical Officers to whom the Association are indebted for their Services.

(1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9) Mr. W. H. CARRUTHERS,	(13) Mr. H. RUNCORN
(2) " J. BROADBENT,	(6) Dr. LEDWARD,	(10) " J. PORTER,	(14) " J. FINLAYSON
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(4) " JOHN WALSH.	(8) " J. P. SLEIGHTHOLME,	(12) " " "	(16) " J. TEALE,

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

## REPORTS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 27th day of February, 1869.

SALFORD.				HULME.			CHORLTON.		ARDWICK	PENDLETON AND PENDLEBURY.					DEATHS.
1,329 .....				477 .....			646 .....		508 .....	2650 .....			Area in Statute Acres.		
70,967 .....				68,209 .....			44,850 .....		21739 .....	24,448 .....			Population in 1861.		
POOR LAW DISTRICT.	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS											
Regent Road.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	
17	18	19	20	21	22	23	24	25	26	27	28				
..	..	..	..	..	..	..	..	..	..	..	..	4	1	Small-pox .....	1
3	..	6	..	..	..	4	..	..	..	1	..	19	3	Measles .....	1
1	..	8	..	3	..	..	..	3	..	..	1	16	27	Scarlet Fever.....	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..
..	..	..	..	..	..	..	..	..	..	..	..	1	27	Whooping-cough ....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Croup .....	..
..	..	3	5	..	2	..	..	..	2	..	4	28	46	Diarrhoea .....	1
..	..	..	..	..	..	..	..	..	..	..	..	2	5	Dysentery .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..
..	..	..	..	..	..	..	..	..	..	..	..	3	5	Erysipelas .....	..
..	4	2	..	..	4	..	1	..	..	..	1	21	9	Continued Fever ....	..
..	..	1	..	..	..	..	..	..	..	..	1	17	27	Typhus .....	5
2	..	1	..	..	..	..	..	1	..	..	..	6	2	Enteric or Typhoid ..	..
..	5	2	..	1	1	1	..	2	..	..	1	38	37	Febricula .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..
..	..	..	..	1	1	1	..	..	..	..	..	20	43	Rheumatic Fever ....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....	..
9	..	39	4	2	2	2	4	10	2	4	21	226	203	Bronchitis & Catarrh	8
..	..	3	..	..	..	..	..	..	..	..	..	3	8	Influenza .....	..
..	..	4	1	1	..	..	1	2	..	2	3	23	17	Pleurisy & Pneumonia.	3
..	..	13	..	1	1	1	1	1	..	1	4	65	80	Phthisis .....	11
..	..	7	2	..	..	..	2	..	..	1	4	42	54	Constitutional Syphilis	..
19	1	92	3	8	3	11	13	25	7	16	42	697	688	All other diseases ....	26
4	..	51	..	..	..	2	2	11	..	26	..	221	237	Accidents .....	1
38	10	232	15	17	14	22	24	55	11	51	82	1452	1520	TOTAL .....	59

+ No Return.

indebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18) ..  
(19) .. J. O. BRADBURY,  
(20) Dr. BRADDON,

(21) Mr. S. WOODCOCK,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON.  
(24) .. JOSEPH FOSTER,

(25) Mr. W. C. BARNISH,  
(26) .. J. V. L. WESTMACOTT,  
(27) .. R. P. O. GORMAN,  
(28) .. GEORGE CLEMENTS.

The reports of the Association, and has as far as practicable, been taken into account in the conclusion drawn from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomson.	Greengate Dis., Mr. Bowcl.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	1	..	..	..	..	..	..	1	..	1	3	1	5
Measles .....	1	..	..	1	..	..	..	1	1	1	..	1	13
Whooping-cough.....	..	..	..	..	..	..	..	2	1	3	..	21	28
Scarlatina .....	2	2	3	2	..	6	1	2	1	3	..	3	6
Diarrhoea .....	..	1	..	1	..	1	1	1	1	..	..	9	17
Fever .....	1	..	3	1	3	14	6	1	6	9	7	89	66
Diseases of the Lungs	17	8	10	8	5	6	19	7	11	16	3	127	131
Other causes.....	19	19	17	5	5	6	19	7	11	16	3	127	131
TOTAL NO. OF DEATHS.	41	30	33	18	8	27	27	12	20	29	13	258	266
TOTAL NO. OF BIRTHS.	61	30	20	14	16	29	36	22	33	66	17	344	383

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 31st Oct.	4 Weeks ending 28th Nov.	4 Weeks ending 26th Dec.	TOTAL.	DISEASES.	5 Weeks ending 31st Oct.	4 Weeks ending 28th Nov.	4 Weeks ending 26th Dec.	TOTAL
1	2	2	5	..... Small-pox .....	8	13	23	44
53	71	52	176	..... Measles .....	32	32	18	82
93	76	46	215	..... Scarlet Fever.....	285	175	158	618
1	..	1	2	..... Diphtheria .....	3	3	..	6
32	51	50	133	..... Whooping-cough .....	3	1	4	8
2	3	1	6	..... Croup .....	2	2	..	4
387	208	204	799	..... Diarrhoea .....	290	139	117	546
2	..	..	2	..... Dysentery .....	11	9	4	24
..	..	..	..	..... Malignant Cholera.....	..	..	..	..
33	31	20	89	..... Erysipelas .....	41	20	18	79
4	18	12	34	..... Continued Fever .....	248	188	113	549
4	3	2	9	..... Typhus .....	268	173	167	608
9	7	1	17	..... Enteric or Typhoid .....	108	81	60	249
55	61	67	183	..... Febricula .....	268	206	161	635
..	..	3	3	..... Ague .....	1	3	1	5
69	76	55	200	..... Rheumatic Fever.....	82	57	61	200
..	..	..	..	..... Puerperal Fever.....	2	1	..	3
872	942	868	2682	..... Bronchitis and Catarrh .....	1132	1138	1063	3333
4	6	2	12	..... Influenza.....	47	34	18	99
48	54	45	147	..... Pleurisy and Pneumonia .....	124	109	72	305
95	73	62	230	..... Phthisis.....	318	270	219	807
37	30	19	86	..... Constitutional Syphilis .....	183	167	159	509
4232	3483	3241	10956	....Accidents, and all other Diseases.....	4773	3634	3447	11854
6038	5195	4753	15986	TOTAL	8229	6455	5883	20567

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN JANUARY.				Royal Infirmary, Dr. REED.	Salford Meteorolog. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Inches.	Wet Days.									
Royton .....	2.840	.....	17							
Penketh .....	2.785	.....	20							
Old Trafford ..	2.686	.....	21							
Wilmslow ....	2.768	.....	16							
Salford .....	.....	.....	..							
Eccles .....	.....	.....	..							
Height of barometer cistern above sea level				130 ft.	108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.
Barometer.				INS.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level					30.037	30.041	30.037	30.052	30.040	30.042
Highest.....					30.217	30.200	30.217	30.118	29.762	30.310
Lowest.....					29.645	29.670	29.645	29.550	29.163	29.718
Range .....					0.572	0.530	0.572	0.568	0.599	0.592
Temperature.										
Adopted Mean .....					41.9	41.8	41.9	42.1	40.5	42.4
Range for Week .....					20.5	20.2	21.8	20.4	21.5	24.8
Daily Range .....					9.9	11.7	10.7	11.9	12.4	11.9
Maximum in Shade .....					54.0	53.2	53.0	52.7	51.0	53.9
Minimum in Shade .....					33.5	33.0	31.2	32.3	29.5	29.1
Temperature of Dew Point .....					36.3	36.0	36.8	37.4	35.2	38.0
Hygrometrical condition of the Atmosphere.					GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000)					0.828	0.816	0.834	0.834	0.813	0.835
Prevailing Winds .....					E, W	SW	E, W	SW	SW	S, NW
Rain .....					0.939	0.916	1.029	0.578	0.980	0.745
Ozonometer.										
Moffat .....					1.28	4.00	5.42	..	..	..
Schonbein .....					..	0.28	..	6.86	4.60	4.50

February 27, 1869.

THOMAS MACKERETH, Esq., F.R.A.S.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

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VOL. IX.] WEEK ENDING SATURDAY, MARCH 6, 1869. No. 449

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#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, March the 6th, 1440 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1452, and in the corresponding week of last year it was 1473. The deaths during the week amounted to 50, being in the proportion of 1 death to every 28 cases.

The present return is favorable in many respects. The cases of Small-Pox, however, have increased considerably since the last report. This week 16 are returned; in the two previous weeks the numbers were 8 and 4 respectively. Eleven of these 16 cases occurred in Manchester and 5 in Salford.

Measles has declined slightly in the course of the past week, the number of cases having fallen from 19 to 16. This disease still prevails chiefly in Salford. Three cases occurred in Manchester, 9 in Salford, 2 in Hulme, and 2 in Chorlton.

It is very satisfactory to find Scarlatina, which has been so long epidemic, steadily declining; the numbers for the last three weeks, respectively, were 19, 16, 13. Four of the cases occurred in Manchester, 6 in Salford, 2 in Hulme, and 1 in Chorlton.

Whooping-Cough is not at all prevalent; 2 cases occurred this week.

Diarrhœa and Dysentery have decreased of late, the numbers for the last three weeks being 52, 30, and 24.

The Fever return remains the same as it was in the last report, the cases for each week being 44. Sixteen cases are assigned to Continued Fever, 20 to Typhus, and 8 to Typhoid Fever. Twelve of the Fever cases were treated in the Workhouses, and the remainder at their homes. In the corresponding week of last year the number of Fever cases was 50.

There has been a marked decrease in the cases of Bronchitis and other acute chest diseases during the last three weeks, the numbers for these weeks being 302, 252, and 226.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 247 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Eighty-three deaths were caused by diseases of the lungs, 21 by Scarlatina, 12 by Fever, 11 by Measles, and 8 by Diarrhœa.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 39.1°; at the Salford Observatory it was 39.3°; at Eccles, 38.9°; and at Old Trafford 39.3.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



MANCHESTER AND SALE

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC I  
New Cases of Disease coming under Treatment D

MANCHESTER.																
Area in Statute Acres.....	Manchester Township 1,645 .....															
Population in 1861.....	" " 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN		City Gaol.
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.	
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	15
Small-pox .....	..	a2	2	..	..	1	5	5	..	..	a1	..	..	..	..	..
Measles .....	..	2	..	..	..	..	2	..	..	..	..	..	..	..	1	..
Scarlet Fever .....	..	..	..	..	..	..	..	1	1	..	..	..	1	..	1	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
Croup .....	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	..	..	..	..	1	1	1	..	..	..	..	..	8	3	4
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Continued Fever.....	2	..	..	3	a1	..	6	..	..	..	..	..	..	..	..	..
Typhus .....	..	..	a1	..	..	3	4	5	2	..	..	1	2	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	3	2	..	..	..	..	..	..	..
Febricula.....	..	..	..	1	1	5	7	6	2	..	1	1	..	14	..	2
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	a1	..	1	..	1	4	2	..	..	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	1	7	5	3	2	5	23	11	..	46	1	3	4	6	8	3
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	2	..	..	..	..	3	5	1	..	..	..	..	..	..	..	..
Phthisis .....	..	1	2	..	1	..	4	8	1	27	1	1	2	4	3	1
Constitutional Syphilis .....	1	..	..	..	..	..	1	9	..	3	..	..	..	..	..	3
All other Diseases .....	16	9	16	10	..	14	65	71	19	137	5	6	8	63	77	2
Accidents .....	2	1	..	..	..	1	4	..	13	96	3	..	2	..	1	..
TOTAL .....	24	22	26	17	6	34	129	122	41	313	14	12	20	95	94	15

a Removed to Workhouse.

Medical Officers to whom the Association

(1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9) Mr. W. H. CARRUTHERS,	(13) Mr. H. RUNCORN
(2) „ J. BROADBENT,	(6) Dr. LEDWARD,	(10) „ J. PORTER,	(14) „ J. FINLAYSON.
(3) „ EDWARD MEACHAM,	(7) Mr. J. WESTMORELAND,	(11) „ C. CURRIE RITCHIE,	(15) „ J. OGDEN FLE
(4) „ JOHN WALSH.	(8) „ J. P. SLEIGHTHOLME,	(12) „	(16) „ J. TEALE,

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

## REPORTS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 6th day of March, 1869.

SALFORD.				HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENNLEBURY.						DEATHS.	
1,329 .....				477 .....			646 .....		508 .....	2650 .....				Area in Statute Acres.			
70,967 .....				68,209 .....			44,850 .....		21,739 .....	24,448 .....				Population in 1861.			
POOR LAW DISTRICT.		PUBLIC INSTITUTIONS.		POOR LAW DISTRICTS.			Poor Law District.		Poor Law District.		Ardwick & Ancoats Dispensary.		Chorlton Union Workhouse.		Total.	Corresponding Week last Year.	DISEASES.
17	18	19	20	21	22	23	24	25	26	27	28						
..	..	5	..	..	..	..	..	..	..	..	..	16		..	Small-pox .....	..	
..	..	9	..	..	..	2	..	2	..	..	..	16		1	Measles .....	..	
..	..	5	1	1	1	..	..	1	..	..	..	13		10	Scarlet Fever .....	2	
..	..	..	..	..	..	..	..	..	..	..	..	..		..	Diphtheria .....	..	
..	..	..	..	..	..	..	..	1	..	..	..	2		21	Whooping-cough .....	..	
..	..	2	..	..	..	..	..	..	..	..	..	3		5	Croup .....	1	
..	..	1	2	1	..	..	..	..	..	..	3	24		32	Diarrhoea .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..		5	Dysentery .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..		..	Malignant Cholera ..	..	
..	..	1	..	..	..	..	..	..	..	..	..	2		11	Erysipelas .....	..	
..	4	3	..	..	1	..	1	..	..	..	1	16		18	Continued Fever .....	1	
4	..	2	..	..	..	..	..	..	..	..	..	20		28	Typhus .....	1	
..	..	1	..	..	..	..	..	2	..	..	..	8		4	Enteric or Typhoid ..	..	
..	3	3	..	..	2	1	1	2	..	1	1	47		34	Febricula .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..		..	Ague .....	..	
1	..	..	..	..	1	1	..	..	..	..	..	11		38	Rheumatic Fever .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..		1	Puerperal Fever .....	..	
10	..	34	5	8	6	2	6	9	1	7	16	209		202	Bronchitis & Catarrh ..	5	
..	..	..	..	..	2	..	..	..	..	..	..	2		4	Influenza .....	..	
..	..	3	..	..	2	1	..	1	..	1	1	15		20	Pleurisy & Pneumonia ..	3	
..	..	9	..	..	..	1	..	2	..	3	2	69		73	Phthisis .....	9	
..	..	6	1	..	1	..	2	..	..	2	3	31		40	Constitutional Syphilis ..	..	
19	2	90	2	10	16	10	17	27	8	21	58	733		700	All other diseases .....	28	
4	..	45	..	..	1	2	..	12	..	20	..	203		226	Accidents .....	..	
38	9	219	11	20	33	20	27	59	9	55	85	1440		1473	TOTAL .....		50

+ No Return.

indebted for the annexed Returns.

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Small Pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	3	..	..	..	..	1	..	1	..	1	5	11	13
Whooping-cough.....	..	1	..	..	..	..	..	..	..	..	..	1	13
Scarlatina .....	3	2	3	3	..	2	2	3	1	2	..	21	22
Diarrhœa .....	3	..	1	1	1	..	..	1	..	1	..	8	2
Fever .....	..	1	5	..	1	..	1	..	1	1	2	12	9
Diseases of the Lungs	10	11	10	1	7	15	2	3	5	13	6	83	71
Other causes.....	15	18	13	6	6	4	14	3	11	14	7	111	144
<b>TOTAL NO. OF DEATHS.</b>	<b>34</b>	<b>33</b>	<b>32</b>	<b>11</b>	<b>15</b>	<b>22</b>	<b>19</b>	<b>11</b>	<b>18</b>	<b>32</b>	<b>20</b>	<b>247</b>	<b>264</b>
<b>TOTAL NO. OF BIRTHS.</b>	<b>46</b>	<b>44</b>	<b>16</b>	<b>13</b>	<b>24</b>	<b>30</b>	<b>36</b>	<b>31</b>	<b>26</b>	<b>50</b>	<b>18</b>	<b>334</b>	<b>373</b>

## Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
 Medical Officer of Health, John Whitmore, M.D.  
 Population in 1861, 161630.

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872	942	868	2682	..... Bronchitis and Catarrh .....	1132	1138	1063	3333
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Inches.	Wet Days.								
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Wilmslow ....	2.768	..... 16							
Salford .....	.....	.....							
Eccles .....	.....	.....							
Height of barometer cistern above sea level			130 ft.	108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.
<b>Barometer.</b>			INS.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level				29.861	29.856	29.861		29.862	29.867
Highest.....				30.279	30.230	30.279		29.834	30.354
Lowest .....				28.963	28.956	28.963		28.504	29.064
Range .....				1.316	1.274	1.316		1.330	1.290
<b>Temperature.</b>									
Adopted Mean .....				39.3	39.3	38.9		38.0	39.6
Range for Week .....				17.7	23.8	20.6		23.8	22.1
Daily Range .....				9.3	13.8	11.2		13.3	12.2
Maximum in Shade .....				48.2	50.8	48.6		49.8	49.5
Minimum in Shade .....				30.5	27.0	28.0		26.0	27.5
Temperature of Dew Point .....				31.4	34.5	32.8		33.3	34.4
<b>Hygrometrical condition of the Atmosphere.</b>									
Degree of Humidity (Saturation—1,000)				GRS. 0.742	GRS. 0.832	GRS. 0.800		GRS. 0.830	GRS. 0.851
Prevailing Winds .....				NW	W,SW	NW		SW	NW
Rain .....				0.463	0.732	0.651		1.180	0.679
<b>Ozonometer.</b>									
Moffat .....				1.28	3.71	5.85		4.00	6.30
Schonbein .....				....	0.28	....		....	....

March 6, 1869.

THOMAS MACKERETH, Esq., F.R.A.S.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

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VOL. IX.] WEEK ENDING SATURDAY, MARCH 13, 1869. No. 450

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#### DISEASES.—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, March the 13th, 1472 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1440, and in the corresponding week of last year it was 1664. The deaths during the week were numerous, amounting to 73, being in the proportion of 1 death to every 20 cases.

The present return is not so favorable as the last.

There is a considerable decrease in the cases of Small-Pox, 5 being returned instead of 16. Three of these occurred in Manchester and 2 in Salford.

Measles remains the same as last week, 16 cases being returned. Seven occurred in Manchester, 6 in Salford, 2 in Chorlton, and 1 in Ardwick.

Sixteen cases of Scarlatina are returned, being an increase of 3 upon the number of the previous week. During the preceding five weeks there was an uninterrupted decline in the cases of this disease.

One case of Whooping-Cough was observed during the week. In the corresponding week of last year the number was 18.

The cases of Bronchitis and other acute chest diseases have risen from 226 to 255.

There is a slight increase in the cases of fever, 48 being returned instead of 44. Seventeen of these were assigned to Continued Fever, 24 to Typhns, and 7 to Typhoid Fever. Ten of the Fever cases were treated in the Manchester Workhouse, 4 in the Infirmary, and 2 in the Chorlton Workhouse.

#### DEATHS.—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 267 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Ninety-eight deaths were caused by diseases of the lungs, 19 by Scarlatina, 9 by Fever, and 8 by Measles.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 35.6°; at the Salford Observatory it was 37.3°; at Eccles, 35.7°; and at Old Trafford 35.7°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

33, PALL MALL, MANCHESTER.



RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS.  
*New Cases of Disease coming under Treatment During the Year 1861.*

MANCHESTER.																	
Area in Statute Acres.....								Manchester Township 1,645 .....									
Population in 1861.....								" " 185,050 .....									
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.									
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts.	Workhouse. 7	ROYAL INFIRMARY						CHILDREN		City Gaol. 15
									In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14		
Small-pox .....	..	..	..	..	..	1	1	..	1	..	..	..	a 1	..	..	..	
Measles .....	..	3	1	..	..	..	4	..	..	..	..	1	..	..	2	..	
Scarlet Fever .....	..	..	..	..	1	1	2	1	..	..	..	..	1	2	..	..	
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	
Diarrhœa.....	..	2	..	..	..	..	2	..	..	..	..	..	..	8	4	..	
Dysentery .....	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Erysipelas .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Continued Fever.....	2	..	..	..	4	..	6	..	..	..	..	..	..	..	2	..	
Typhus .....	..	..	..	..	..	4	4	10	2	..	..	1	b2	..	..	..	
Enteric or Typhoid .....	1	..	..	..	..	..	1	..	2	..	..	..	2	..	..	..	
Febricula.....	..	..	..	..	..	1	1	..	..	..	2	1	1	8	..	..	
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Rheumatic Fever .....	..	..	1	..	..	..	1	..	2	9	..	1	1	..	..	..	
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Bronchitis and Catarrh .....	7	6	2	5	4	7	31	10	..	36	2	3	7	14	14	..	
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	
Pleurisy and Pneumonia....	..	..	..	..	..	..	..	3	1	2	1	..	..	1	1	..	
Phthisis .....	..	..	3	1	..	..	4	2	..	29	2	4	4	3	2	1	
Constitutional Syphilis .....	..	..	..	..	..	..	..	6	..	4	..	..	1	1	2	3	
All other Diseases .....	17	4	9	11	9	14	64	67	17	130	2	5	10	72	72	4	
Accidents .....	3	1	..	2	..	3	9	..	22	121	1	..	..	..	1	..	
TOTAL .....	30	16	16	19	19	31	131	99	47	331	10	16	31	109	101	17	

a Removed to Royal Infirmary.      b Removed to Workhouse.

*Medical Officers to whom the Association have referred Cases during the Year 1861.*

(1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9) Mr. W. H. CARRUTHERS,	(13) Mr. H. RUNCORN,
(2) „ J. BROADBENT,	(6) Dr. LEDWARD.	(10) „ J. PORTER,	(14) „ J. FINLAYSON,
(3) „ EDWARD MEACHAM,	(7) Mr. J. WESTMORELAND,	(11) „ C. CURRIE RITCHIE,	(15) „ J. OGDEN FLEMING,
(4) „ JOHN WALSH.	(8) „ J. P. SLEIGHTHOLME,	(12) „	(16) „ J. TEALE,

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

## REPORTS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 13th day of March, 1869.

SALFORD.				HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.						DEATHS.
1,329				477			646		508	2650				Area in Statute Acres.		
70,967				68,209			44,850		21739	24,448				Population in 1861.		
POOR LAW DISTRICT.		PUBLIC INSTITUTIONS.		POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.		
Regent Road.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's										
17	18	19	20	21	22	23	24	25	26	27	28					
..	..	2	..	..	..	..	..	..	..	..	..	5	..	Small-pox .....	..	
..	..	6	..	..	..	..	1	1	..	1	..	16	4	Measles .....	2	
..	..	7	..	..	..	..	..	3	..	..	..	16	21	Scarlet Fever.....	1	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	1	18	Whooping-cough ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	1	..	Croup .....	..	
1	..	..	3	1	..	..	1	..	..	..	4	28	31	Diarrhœa .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	1	3	Dysentery .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..	
..	..	..	..	..	..	1	..	..	..	..	..	1	5	Erysipelas .....	..	
..	5	3	..	..	..	..	..	..	..	..	1	17	19	Continued Fever ....	..	
2	..	1	..	..	1	..	..	..	..	..	1	24	29	Typhus .....	4	
..	..	1	..	..	..	..	..	1	..	..	..	7	5	Enteric or Typhoid ..	2	
..	1	4	..	..	..	3	..	7	1	3	5	37	33	Febricula .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..	
..	..	..	..	..	..	..	..	2	..	2	1	19	42	Rheumatic Fever ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....	..	
5	..	39	4	1	4	5	7	15	3	6	24	233	218	Bronchitis & Catarrh	11	
..	..	..	..	..	1	..	..	..	..	..	..	3	4	Influenza .....	..	
..	..	4	1	..	..	..	1	2	..	..	2	19	15	Pleurisy & Pneumonia.	1	
..	..	11	1	..	..	1	1	3	..	1	6	75	74	Phthisis .....	12	
..	..	4	..	..	..	..	2	..	..	1	6	30	49	Constitutional Syphilis	..	
9	5	102	3	5	4	7	19	29	3	18	50	697	805	All other diseases ....	40	
2	..	41	..	2	..	..	..	13	..	26	4	242	289	Accidents .....	..	
19	11	225	12	9	10	17	32	76	7	58	104	1472	1664	TOTAL.....	73	

+ No Return.

Indebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18) ..  
(19) .. J. O. BRADBURY,  
(20) Dr. BRADDON,

(21) Mr. S. WOODCOCK,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON.  
(24) .. JOSEPH FOSTER,

(25) Mr. W. C. BARNISH,  
(26) .. J. V. L. WESTMACOTT,  
(27) .. R. P. O. GORMAN,  
(28) .. GEORGE CLEMENTS.

The reports of the Association, and has as far as practicable, been taken into account in the conclusion drawn from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C.F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	3	..	..	..	..	..	..	2	..	..	3	8	2
Whooping-cough.....	..	..	..	..	..	..	..	..	..	1	..	1	3
Scarlatina .....	3	3	..	..	1	..	1	2	1	6	2	19	12
Diarrhoea .....	..	..	1	..	..	1	..	..	1	2	..	5	5
Fever .....	..	1	5	1	1	..	1	..	..	..	..	9	12
Diseases of the Lungs	16	18	16	6	4	7	5	4	7	12	3	98	72
Other causes.....	13	17	13	7	12	5	16	10	8	22	4	127	123
TOTAL NO. OF DEATHS.	35	39	35	14	18	13	23	18	17	43	12	267	229
TOTAL NO. OF BIRTHS.	45	41	14	17	21	36	35	19	32	76	27	363	383

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 31st Oct.	4 Weeks ending 28th Nov.	4 Weeks ending 26th Dec.	TOTAL.	DISEASES.	5 Weeks ending 31st Oct.	4 Weeks ending 28th Nov.	4 Weeks ending 26th Dec.	TOTAL
1	2	2	5	Small-pox .....	8	13	23	44
53	71	52	176	.....Measles .....	32	32	18	82
93	76	46	215	.....Scarlet Fever.....	285	175	158	618
1	..	1	2	.....Diphtheria .....	3	3	..	6
32	51	50	133	.....Whooping-cough .....	3	1	4	8
2	3	1	6	.....Croup .....	2	2	..	4
387	208	204	799	.....Diarrhoea .....	290	139	117	546
2	..	..	2	.....Dysentery .....	11	9	4	24
..	..	..	..	.....Malignant Cholera.....	..	..	..	..
38	31	20	89	.....Erysipelas .....	41	20	18	79
4	18	12	34	.....Continued Fever .....	248	188	113	549
4	3	2	9	.....Typhus .....	268	175	167	608
9	7	1	17	.....Enteric or Typhoid .....	108	81	60	249
55	61	67	183	.....Febricula .....	268	206	161	635
..	..	3	3	.....Ague .....	1	3	1	5
69	76	55	200	.....Rheumatic Fever.....	82	57	61	200
..	..	..	..	.....Puerperal Fever.....	2	1	..	3
872	942	868	2682	.....Bronchitis and Catarrh .....	1132	1138	1063	3333
4	6	2	12	.....Influenza.....	47	34	18	99
48	54	45	147	.....Pleurisy and Pneumonia .....	124	109	72	305
95	73	62	230	.....Phthisis.....	318	270	219	807
37	30	19	86	.....Constitutional Syphilis .....	183	167	159	509
4232	3483	3241	10956	....Accidents, and all other Diseases.....	4773	3634	3447	11854
6038	5195	4753	15986	TOTAL	8229	6455	5883	20567

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN JANUARY.				Royal Infirmary, Dr. REED.	Salford Meteorolog. Observatory, T. Mackereth, Esq.	Old Trafford, G.V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L.W. Reynolds Esq.
Inches.	Wet Days.									
Royton .....	2.840	.....	17							
Penketh .....	2.785	.....	20							
Old Trafford ..	2.686	.....	21							
Wilmslow ....	2.768	.....	16							
Salford .....	.....	.....	..							
Eccles .....	.....	.....	..							
Height of barometer cistern above sea level				130 ft.	108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.
Barometer.				INS.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level					29.733	29.742	29.733			
Highest.....					30.109	30.124	30.109			
Lowest.....					29.411	29.404	29.411			
Range .....					0.698	0.720	0.698			
Temperature.										
Adopted Mean .....					37.3	35.7	35.7			
Range for Week .....					12.2	26.0	19.1			
Daily Range.....					9.5	14.1	13.2			
Maximum in Shade .....					43.2	48.0	46.4			
Minimum in Shade .....					31.0	28.0	27.3			
Temperature of Dew Point .....					30.4	31.1	31.2			
Hygrometrical condition of the Atmosphere.										
Degree of Humidity (Saturation--1,000)					GRS. 0.764	GRS. 0.834	GRS. 0.841			
Prevailing Winds .....					N,E	NE	N,E			
Rain .....					0.057	0.050	0.129			
Ozonometer.										
Moffat .....					.....	0.86	1.14			
Schonbein .....					.....	.....	.....			

March 13, 1869.

THOMAS MACKERETH, Esq., F.R.A.S.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, MARCH 20, 1869. No. 451

#### DISEASES.—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, March the 20th, 1457 newcases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1472, and in the corresponding week of last year it was 1462. The deaths during the week were numerous, amounting to 74, being in the proportion of 1 death to every 19 cases.

The present return is in many respects favorable.

The improvement with regard to Small-Pox reported last week has not been maintained, the cases having risen from 5 to 10. Five occurred in Manchester, 4 in Salford, and 1 in Chorlton.

There is a slight decrease in the cases of Measles, 14 being returned instead of 16. One of these was observed in Manchester, 8 in Salford, 2 in Hulme, 1 in Chorlton, and 1 in Ardwick.

The return of Scarlatina cases is the same as in the preceding week, 16 being reported. Two of these cases occurred in Manchester, 7 in Salford, 1 in Hulme, and 6 in Chorlton.

Whooping-Cough is not at all prevalent; 2 cases are returned. In the corresponding week of last year the number was 17.

There is a marked increase in the cases of Diarrhœa and Dysentery, the number having risen from 29 to 42.

The fever return is favorable, 37 cases being returned; in the preceding week the number was 48. Thirteen cases were assigned to Continued Fever, 15 to Typhus, and 9 to Typhoid Fever.

The cases of Bronchitis and other acute chest diseases have risen from 255 to 285.

#### DEATHS.—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 277 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. One hundred and twelve deaths were caused by diseases of the lungs, 12 by Scarlatina, 12 by Fever, 7 by Measles, 5 by Diarrhœa, and 3 by Small-Pox.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 36·9°; at the Salford Observatory it was 38·7°; at Penketh 38·9; and at Eccles 37·6°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS. New Cases of Disease coming under Treatment During the Year 1861.

MANCHESTER.																
Area in Statute Acres .....								Manchester Township 1,645 .....								
Population in 1861 .....								" " 185,050 .....								
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	ROYAL INFIRMARY					CHILDREN			City Gaol. 15
								Workhouse. 7	In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	
Small-pox .....	..	..	..	..	..	1	1	..	2	..	..	..	b2	..	..	..
Measles .....	..	1	..	..	..	..	1	..	..	..	..	..	..	..	1	..
Scarlet Fever .....	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	..	1	..	..	2	1	4	1	..	..	..	..	..	9	3	3
Dysentery .....	..	..	..	1	..	2	3	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Continued Fever.....	2	..	..	a1	a1	..	4	..	..	..	..	..	..	..	2	..
Typhus .....	..	..	..	..	..	..	..	4	3	..	..	3	c2	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	1	4	..	..	..	1	..	..	..
Febricula.....	1	..	..	1	..	3	5	..	..	..	..	1	2	9	3	2
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	..	2	6	1	..	4	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	10	9	2	2	9	7	39	10	1	46	..	6	11	12	13	3
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	..	..	..	..	..	1	1	2	..	..	..	1	1	..	2	..
Phthisis .....	..	1	1	..	..	..	2	2	1	29	2	2	1	4	2	1
Constitutional Syphilis .....	..	..	..	..	..	1	1	13	..	5	..	..	1	..	1	2
All other Diseases .....	8	6	10	3	4	14	45	59	15	123	4	6	5	62	81	6
Accidents .....	2	..	..	..	..	..	2	10	18	104	..	..	1	..	..	..
TOTAL .....	23	18	13	8	16	30	108	106	47	313	7	19	32	97	109	17

a Removed to Workhouse. b Removed to Infirmary. c 1 Removed to Workhouse and 1 to Royal Infirmary.

Medical Officers to whom the Association

- |                       |                           |                           |                     |
|-----------------------|---------------------------|---------------------------|---------------------|
| (1) Mr. R. M. MANN.   | (5) Mr. OCTAVIUS DEAN,    | (9) Mr. W. H. CARRUTHERS, | (13) Mr. H. RUNCORN |
| (2) „ J. BROADBENT,   | (6) Dr. LEDWARD.          | (10) „ J. PORTER,         | (14) „ J. FINLAYSON |
| (3) „ EDWARD REACHAM, | (7) Mr. J. WESTMORELAND,  | (11) „ C. CURRIE RITCHIE, | (15) „ J. OGDEN FLE |
| (4) „ JOHN WALSH.     | (8) „ J. P. SLEIGHTHOLME, | (12) „                    | (16) „ J. TEALE,    |

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# ANITARY ASSOCIATION.

## ONS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 20th day of March, 1869.

SALFORD.				HULME.			CHORLTON.		ARDWICK	PENDLETON AND PENLEBURY.						DEATHS.	
1,329 .....				477.....			646...		508.	2650.....				Area in Statute Acres.			
70,967. ....				68,209. ..			44,850.		21739	24,148 .....				Population in 1861.			
LAW DISTRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS													
Regent Road.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.			
17	18	19	20	21	22	23	24	25	26	27	28						
..	3	1	..	..	..	..	..	..	..	..	1	10	..	Small-pox .....	..		
..	..	8	..	..	..	2	..	1	..	1	..	14	7	Measles .....	1		
..	1	6	..	1	..	..	3	3	..	..	..	16	22	Scarlet Fever.....	1		
..	..	..	..	..	..	..	..	..	..	..	..	1	..	Diphtheria .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	2	17	Whooping-cough ....	..		
..	..	1	..	..	..	..	..	..	..	..	..	1	1	Croup .....	..		
..	..	3	5	..	..	1	1	1	1	..	7	39	47	Diarrhoea .....	1		
..	..	..	..	..	..	..	..	..	..	..	..	3	4	Dysentery .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..		
..	..	..	..	1	..	..	..	..	..	1	2	5	4	Erysipelas .....	..		
..	4	2	..	..	..	..	at	..	..	..	..	13	24	Continued Fever ....	..		
1	..	2	..	..	..	..	..	..	..	..	..	15	33	Typhus .....	6		
..	..	1	..	..	1	..	..	..	..	1	..	9	4	Enteric or Typhoid ..	1		
1	..	4	..	..	..	1	1	3	..	3	..	35	26	Febricula .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Ague .....	..		
..	..	2	..	..	..	..	2	1	..	2	..	20	26	Rheumatic Fever ....	..		
..	..	..	..	..	..	..	..	..	..	..	..	2	4	Puerperal Fever.....	1		
11	..	39	4	4	4	4	12	9	9	6	21	264	205	Bronchitis & Catarrh	13		
..	..	..	..	..	2	..	..	..	..	..	..	2	12	Influenza .....	..		
1	..	3	1	..	..	1	..	4	..	..	2	19	15	Pleurisy & Pneumonia.	2		
..	..	13	..	2	..	..	2	..	..	4	7	74	58	Phthisis .....	9		
..	..	5	1	..	..	...	1	..	..	1	2	33	55	Constitutional Syphilis	..		
7	5	94	4	4	5	9	20	29	3	21	43	650	679	All other diseases ....	39		
2	..	56	..	..	..	..	..	10	..	22	5	230	218	Accidents .....	..		
23	13	240	15	12	12	18	43	61	13	62	90	1457	1462	TOTAL .....	74		

+ No Return.

debted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
 (18) .. J. O. BRADBURY,  
 (19) .. J. O. BRADBURY,  
 (20) Dr. BRADDON,

(21) Mr. S. WOODCOCK,  
 (22) Dr. ALEX. WILSON,  
 (23) Mr. H. M. WILLIAMSON.  
 (24) .. JOSEPH FOSTER,

(25) Mr. W. C. BARNISH,  
 (26) .. J. V. L. WESTMACOTT,  
 (27) .. R. P. O. GORMAN,  
 (28) .. GEORGE CLEMENTS.

reports of the Association, and has as far as practicable, been taken into account in the conclusion from the weekly returns.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bowler.	Regent-rd. Dis., Mr. Tople.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	1	..	..	1	..	..	..	..	..	1	3	..
Measles .....	..	2	..	..	..	..	1	..	..	1	1	7	3
Whooping-cough.....	..	..	..	..	..	..	..	..	..	..	..	..	6
Scarlatina .....	3	1	1	1	..	..	1	..	1	4	..	12	15
Diarrhœa .....	2	2	1	..	..	..	..	..	..	..	..	5	12
Fever .....	2	..	6	1	1	..	2	..	..	..	..	12	16
Diseases of the Lungs	12	19	13	10	5	8	4	3	14	19	5	112	69
Other causes.....	17	10	17	6	5	14	17	7	11	18	4	126	144
<b>TOTAL NO. OF DEATHS.</b>	36	35	38	20	12	22	25	10	26	42	11	277	265
<b>TOTAL NO. OF BIRTHS.</b>	39	45	15	20	22	24	29	17	32	78	17	338	353

## Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
 Medical Officer of Health, John Whitmore, M.D.  
 Population in 1861, 161630.

At Pauper, Charitable, and Public Institutions in  
 MANCHESTER and SALFORD.  
 Population in 1861, 390,915.

5 Weeks ending 31st Oct.	4 Weeks ending 29th Nov.	4 Weeks ending 26th Dec.	TOTAL.	DISEASES.	5 Weeks ending 31st Oct.	4 Weeks ending 29th Nov.	4 Weeks ending 26th Dec.	TOTAL
1	2	2	5	..... Small-pox .....	8	13	23	44
53	71	52	176	..... Measles .....	32	32	18	82
93	76	46	215	..... Scarlet Fever.....	285	175	158	618
1	..	1	2	..... Diphtheria .....	3	3	..	6
32	51	50	133	..... Whooping-cough .....	3	1	4	8
2	3	1	6	..... Croup .....	2	2	..	4
387	208	204	799	..... Diarrhœa .....	290	139	117	546
2	..	..	2	..... Dysentery .....	11	9	4	24
..	..	..	..	..... Malignant Cholera.....	..	..	..	..
38	31	20	89	..... Erysipelas .....	41	20	18	79
4	18	12	34	..... Continued Fever .....	248	188	113	549
4	3	2	9	..... Typhus .....	268	175	167	603
9	7	1	17	..... Enteric or Typhoid .....	108	81	60	249
55	61	67	183	..... Febricula .....	268	206	161	635
..	..	3	3	..... Ague .....	1	3	1	5
69	76	55	200	..... Rheumatic Fever.....	82	57	61	200
..	..	..	..	..... Puerperal Fever .....	2	1	..	3
872	942	868	2682	..... Bronchitis and Catarrh .....	1132	1138	1063	3333
4	6	2	12	..... Influenza.....	47	31	18	99
48	54	45	147	..... Pleurisy and Pneumonia .....	124	109	72	305
95	73	62	230	..... Phthisis.....	318	270	219	807
37	30	19	86	..... Constitutional Syphilis .....	183	167	159	509
4232	3483	3241	10956	.... Accidents, and all other Diseases.....	4773	3634	3447	11854
6038	5195	4753	15986	<b>TOTAL</b>	8229	6455	5883	20567

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN JANUARY.				Royal Infirmary, Dr. REED.	Salford Meteorologl. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington. L. W. Reynolds Esq.
Inches.	Wet Days.									
Royton .....	2.840	.....	17							
Penketh .....	2.785	.....	20							
Old Trafford ..	2.686	.....	21							
Wilmslow .....	2.768	.....	16							
Salford .....	.....	.....	..							
Eccles .....	.....	.....	..							
Height of barometer cistern above sea level				130 ft.	108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.
<b>Barometer.</b>				INS.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.					29.721		29.721			29.735
Highest.....					29.821		29.821			29.922
Lowest.....					29.201		29.201			29.250
Range .....					0.620		0.620			0.672
<b>Temperature.</b>										
Adopted Mean .....					38.7		37.6			38.9
Range for Week .....					16.8		20.4			24.0
Daily Range .....					8.9		11.2			12.8
Maximum in Shade .....					48.8		49.5			51.0
Minimum in Shade .....					32.0		29.1			27.0
Temperature of Dew Point .....					32.4		32.4			34.8
<b>Hygrometrical condition of the Atmosphere</b>										
Degree of Humidity (Saturation—1,000)					GRS. 0.788		GRS. 0.820			GRS. 0.856
Prevailing Winds .....					NE,SE		NE,SE			NE,E,N
Rain .....					....		0.639			0.782
<b>Ozonometer.</b>										
Moffat .....					0.14		2.43			3.30
Schonbein .....					....		....			....

March 20, 1869.

THOMAS MACKERETH, Esq., F.R.A.S.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

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VOL. IX.] WEEK ENDING SATURDAY, MARCH 27, 1869. No. 452

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**DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, March the 27th, 1357 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1457, and in the corresponding week of last year it was 1449. The deaths during the week were numerous, amounting to 77, being in the proportion of 1 death to every 17 cases.

With the exception of the three first diseases on the list this return is favorable.

Small-Pox shows a tendency to disappear from the public practice of the City and Borough, the numbers for the last three weeks being 5, 10 and 12.

Measles has increased in prevalency since the last return, 20 cases being reported instead of 16. It has been most prevalent during the week in Salford and Hulme. Ten cases occurred in the former and 6 in the latter.

There is a rise in the number of Scarlatina cases from 13 to 23. Only 2 of these occurred in Manchester, while 13 were observed in Salford, 3 in Hulme, and 5 in Chorlton.

Whooping-Cough spreads but little and yet it continues to hold its ground; the numbers for the last three weeks were 1, 2 and 3.

There is an improvement in Diarrhœa and Dysentery, the number of cases having fallen from 42 to 29.

The fever return continues favorable, 36 cases are reported for this week, being 1 less than in the preceding week. Thirteen cases were attributed to Continued Fever, 14 to Typhus, and 9 to Typhoid Fever. Sixteen of the fever cases were treated in the hospitals and the rest at their homes.

The cases of Bronchitis and other acute chest diseases have declined from 285 to 252.

**DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 246 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Eighty-four deaths were caused by diseases of the lungs, 11 by Measles, 11 by Fever, and 8 by Scarlatina.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 38·7°; at the Salford Observatory it was 41·4°; at Penketh, 40·4°; and at Eccles 40·7.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



MANCHESTER AND SALE

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	" " 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	ROYAL INFIRMARY.					CHILDREN			City Gaol. 15
								Workhouse. 7	In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	
Small-pox .....	..	..	..	..	..	1	1	2	..	..	..	..	..	..	..	..
Measles .....	..	1	..	..	..	..	1	..	..	..	..	..	..	..	1	..
Scarlet Fever .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..
Croup .....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Diarrhoea.....	..	1	..	..	..	..	1	1	..	..	..	..	..	7	5	..
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	1	..	..	..	..	1	2	2	1	..	..	..	..	..	..	..
Continued Fever.....	1	..	..	a3	a2	..	6	..	..	..	..	..	..	..	..	..
Typhus .....	..	..	..	..	..	..	..	9	1	..	..	1	..	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	..	4	..	..	1	..	..	..	..
Febricula.....	..	..	..	..	..	1	1	..	..	..	..	..	..	7	2	..
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	1	..	1	..	3	4	2	1	3	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	3	7	1	1	5	6	23	16	..	40	..	5	4	11	11	..
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	..	..	..	..	..	1	1	5	..	..	..	1	..	..	4	..
Phthisis .....	..	..	..	1	..	1	2	5	..	26	1	1	..	2	2	..
Constitutional Syphilis .....	..	..	..	..	..	1	1	6	..	3	..	..	..	..	..	..
All other Diseases .....	15	6	7	11	3	13	55	47	18	142	2	3	7	42	99	..
Accidents .....	..	..	..	..	..	..	..	8	12	93	1	..	..	..	1	..
TOTAL .....	20	15	8	16	11	25	95	103	39	308	6	13	15	70	127	1

a Removed to Workhouse.

Medical Officers to whom the Association

- (1) Mr. R. M. MANN.

(2) " J. BROADBENT,

(3) " EDWARD MEACHAM,

(4) " JOHN WALSH.
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(12) "
- (13) Mr. H. RUNCO

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# SANITARY ASSOCIATION.

## ONS OF MANCHESTER AND ADJOINING DISTRICTS

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SALFORD.				HULME.			CHORLTON.		ARDWICK	PENDLETON AND PENDLEBURY.						DEATHS.
1,329				477			646		508	2650				Area in Statute Acres.		
70,967				68,209			44,850		21739	24,448				Population in 1861.		
POOR LAW DISTRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS											DISEASES.	
Regent Road.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.			
17	18	19	20	21	22	23	24	25	26	27	28					
..	8	..	..	..	..	..	1	..	..	..	..	12	..	Small-pox .....	1	
1	..	9	..	2	2	2	..	..	1	..	1	20	12	Measles .....	..	
2	..	11	..	2	..	1	..	4	..	..	1	23	21	Scarlet Fever.....	3	
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria .....	..	
..	..	..	..	..	1	..	..	..	..	..	..	3	18	Whooping-cough ....	..	
..	..	1	..	..	..	..	..	..	..	..	..	2	1	Croup .....	..	
..	..	4	2	..	..	..	1	..	..	..	3	28	36	Diarrhœa .....	1	
..	..	..	..	..	..	..	1	..	..	..	..	1	2	Dysentery .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..	
..	..	..	..	..	..	..	..	..	..	..	1	6	4	Erysipelas .....	..	
..	1	4	..	..	1	..	..	..	..	..	1	13	12	Continued Fever ....	..	
1	..	2	..	..	..	..	..	..	..	..	..	14	17	Typhus .....	..	
..	..	1	..	..	..	..	1	1	..	1	..	9	6	Enteric or Typhoid ..	3	
1	1	5	..	1	..	3	1	4	..	..	3	31	41	Febricula .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..	
..	..	..	2	..	2	..	..	..	..	1	..	19	14	Rheumatic Fever ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	1	..	Puerperal Fever.....	..	
10	..	32	6	3	5	4	7	9	2	8	22	221	206	Bronchitis & Catarrh	11	
..	..	2	..	..	2	..	..	..	..	1	..	7	10	Influenza .....	..	
2	..	3	..	..	3	..	..	2	..	2	..	24	14	Pleurisy & Pneumonia.	2	
..	..	14	..	..	..	..	3	1	..	5	2	65	72	Phthisis .....	15	
..	..	4	..	..	1	1	2	..	..	..	2	22	53	Constitutional Syphilis	1	
9	8	62	2	1	5	8	14	23	5	18	53	626	671	All other diseases ....	38	
2	..	54	..	..	..	1	2	11	..	23	2	210	258	Accidents .....	2	
28	18	208	12	9	22	20	33	55	8	59	91	1357	1449	TOTAL .....	77	

+ No Return.

indebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18) ..  
(19) .. J. O. BRADBURY,  
(20) Dr. BRADDON,

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Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. John.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bowler.	Regent-rd. Dis., Mr. Tipton.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	1	..	..	..	..	..	..	..	..	1	..
Measles .....	2	1	..	1	..	2	1	..	..	2	2	11	3
Whooping-cough.....	..	1	..	..	..	..	..	..	..	1	..	2	9
Scarlatina .....	1	1	..	1	2	..	..	..	1	2	1	8	20
Diarrhoea .....	..	..	..	..	..	..	1	..	..	1	1	3	6
Fever .....	..	2	3	..	..	..	1	..	2	2	1	11	13
Diseases of the Lungs	11	11	10	7	3	5	7	..	9	12	7	84	62
Other causes.....	19	16	11	7	4	11	13	10	8	16	11	126	125
TOTAL NO. OF DEATHS.	33	32	25	16	11	18	23	10	20	36	22	246	238
TOTAL NO. OF BIRTHS.	47	43	10	19	12	27	21	18	40	81	18	336	367

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161,680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 26th Dec.	5 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	TOTAL.	DISEASES.	4 Weeks ending 26th Dec.	5 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	TOTAL
2	1	2	5	Small-pox .....	23	34	48	105
52	57	19	128	Measles .....	18	54	52	124
46	68	56	170	Scarlet Fever.....	158	204	93	455
1	..	2	3	Diphtheria .....	..	..	..	..
50	110	71	231	Whooping-cough .....	4	4	8	16
1	6	3	10	Croup .....	..	3	3	6
204	294	242	740	Diarrhoea .....	117	144	140	401
..	1	..	1	Dysentery .....	4	7	8	19
..	..	..	..	Malignant Cholera.....	..	..	..	..
20	25	15	60	Erysipelas .....	18	32	22	72
12	7	8	27	Continued Fever .....	113	99	88	300
2	..	..	2	Typhus .....	167	135	90	392
1	5	1	7	Enteric or Typhoid .....	60	61	29	150
67	104	104	275	Febricula .....	161	240	242	643
3	1	..	4	Ague .....	1	..	..	1
55	71	55	181	Rheumatic Fever.....	61	113	117	291
..	..	..	..	Puerperal Fever.....	..	3	..	3
868	1441	1048	3357	Bronchitis and Catarrh .....	1063	1406	1105	3574
2	6	3	11	Influenza.....	18	15	23	56
45	57	45	147	Pleurisy and Pneumonia .....	72	95	81	248
62	100	94	256	Phthisis .....	219	349	292	860
19	34	19	72	Constitutional Syphilis .....	159	154	133	446
3241	4378	3842	11461	Accidents, and all other Diseases.....	3447	4740	3967	12154
4753	6766	5629	17148	TOTAL	5883	7892	6541	20316

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN JANUARY.				Royal Infirmary, Dr. REED.	Salford Meteorologl. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Inches. Wet Days.										
Royton .....	2.840	17								
Penketh .....	2.785	20								
Old Trafford ..	2.686	21								
Wilmslow .....	2.768	16								
Salford .....	..	..								
Eccles .....	..	..								
Height of barometer cistern above sea level				130 ft.	108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.
Barometer.				INS.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level					30.092		30.092			30.099
Highest.....					30.305		30.305			30.390
Lowest.....					29.613		29.613			29.714
Range .....					0.692		0.692			0.676
Temperature.										
Adopted Mean .....					41.4		40.7			40.4
Range for Week .....					20.4		23.7			24.4
Daily Range .....					10.6		14.1			17.3
Maximum in Shade .....					50.4		51.5			49.8
Minimum in Shade .....					30.0		27.8			25.4
Temperature of Dew Point .....					34.0		34.2			35.1
Hygrometrical condition of the Atmosphere.										
Degree of Humidity (Saturation—1,000)					GRS. 0.757		GRS. 0.782			GRS. 0.820
Prevailing Winds .....					N		N			0.066
Rain .....					0.103		0.078			0.066
Ozonometer.										
Moffat .....					0.57		3.00			2.40
Schonbein .....					..		..			..



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, APRIL 3, 1869.

No. 453

**DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, April the 3rd, 1523 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1357, and in the corresponding week of last year it was 1605. The deaths during the week amounted to 75, being in the proportion of 1 death to every 20 cases.

Small-Pox is steadily becoming more prevalent, the numbers for the last three weeks being respectively 10, 12, and 21: 7 of these 21 cases occurred in Manchester, 11 in Salford, and 3 in Chorlton. Three were treated in the Royal Infirmary and 10 in the Workhouses.

Measles is also becoming more common, the numbers for the last three weeks being 14, 20, and 30. Fifteen cases are this week returned from the Chorlton Union Workhouse; and Mr. Clements states, "None of these cases were admitted from outside, but an epidemic of Measles has broken out in the Nursery and Schools of this Workhouse."

Scarlatina remains the same as it was last week, 23 cases being returned. Ten occurred in Manchester, 8 in Salford, 1 in Hulme, 3 in Chorlton, and 1 in Ardwick.

There is an increase in the cases of fever, 43 being returned, against 36 in the preceding week. Eleven cases were assigned to Continued Fever, 16 to Typhus, and 16 to Typhoid Fever. The increase was owing to the rise in Typhoid Fever cases from 9 in the previous to 16 in the present week.

The cases of Bronchitis and other acute chest diseases have risen from 252 to 289.

Not a single case of Whooping-Cough occurred in public practice.

**DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 278 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. One hundred and nine deaths were caused by diseases of the lungs, 17 by Measles, 10 by Scarlatina, and 8 by Fever.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 39.0°; at the Salford Observatory it was 39.7°; at Eccles 40.0°; and at Old Trafford, 39.5°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS  
New Cases of Disease coming under Treatment During the Year 1861

MANCHESTER.																
Area in Statute Acres .....		Manchester Township 1,645 .....														
Population in 1861 .....		" " 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	Workhouse. 7	ROYAL INFIRMARY.					CHILDREN		City Gaol. 15
									In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	
Small-pox .....	..	..	..	..	..	2	2	1	3	..	al	..	..	..	..	..
Measles .....	..	2	..	..	..	..	2	..	..	..	..	..	..	1	..	..
Scarlet Fever .....	..	..	..	..	..	6	6	..	2	..	..	..	..	2	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	1	..	..	..	..	..	1	2	1	..	..	..	..	4	6	3
Dysentery .....	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	1	1	3	..	..	..	..	..	..	..	..
Continued Fever.....	..	..	..	..	3	..	3	..	..	..	..	..	..	..	1	..
Typhus .....	..	..	al	..	..	..	1	9	..	..	..	..	2	..	..	..
Enteric or Typhoid .....	..	..	al	..	..	..	1	..	3	..	..	..	3	..	..	..
Febricula.....	..	..	..	..	..	2	2	..	1	..	..	..	1	7	2	2
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	..	2	11	3	..	2	..	..	1
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	6	6	10	9	4	12	47	12	1	40	1	..	9	8	10	4
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
Pleurisy and Pneumonia....	..	1	..	..	..	1	2	4	..	5	1	..	..	..	3	..
Phthisis .....	..	..	..	3	..	1	4	5	..	19	3	4	6	3	2	1
Constitutional Syphilis .....	..	..	..	..	..	..	..	13	1	4	..	..	..	..	1	2
All other Diseases .....	42	3	13	8	3	10	79	67	30	115	3	2	7	56	84	5
Accidents .....	2	..	..	1	..	..	3	10	13	83	..	..	..	..	..	..
TOTAL .....	51	12	26	21	10	35	155	126	57	277	12	6	31	81	109	18

a Removed to Workhouse.

Medical Officers to whom the Association refer cases

(1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9) Mr. W. H. CARRUTHERS,	(13) Mr. H. RUNCOR
(2) " J. BROADBENT,	(6) Dr. LEDWARD.	(10) " J. PORTER,	(14) " W. M. MACC
(3) " EDWARD MEACHAM,	(7) Mr. J. WESTMORELAND,	(11) " C. CURRIE RITCHIE,	(15) " J. OGDEN FL
(4) " JOHN WALSH.	(8) " J. P. SLEIGHTHOLME,	(12) " " "	(16) " J. TEALE,

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# ANITARY ASSOCIATION.

## NS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 3rd day of April, 1869.

SALFORD.				HULME.			CHORLTON.		ARDWICK	PENDLETON AND PENDLEBURY.			Area in Statute Acres.	
1,329 .....				477 .....			646 .....		508	2650 .....			Population in 1861.	
70,967. ....				68,209. ....			44,850. ....		21739	24,448 .....				
LAW DISTRICT	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.		Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	DEATHS.
	Regent Road.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	Poor Law District.	Dispensary.						
17	18	19	20	21	22	23	24	25	26	27	28			
1	8	2	..	..	..	..	1	1	..	..	1	21	..	Small-pox .....
..	..	6	..	2	1	..	2	..	1	..	15	30	13	Measles .....
..	..	8	..	1	..	..	..	3	1	..	..	23	15	Scarlet Fever.....
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....
..	..	..	..	..	..	..	..	..	..	..	..	..	16	Whooping-cough ....
..	..	..	..	..	..	..	..	..	..	..	..	1	..	Croup .....
..	..	3	1	..	..	..	..	..	..	..	1	22	34	Diarrhœa .....
..	..	..	..	..	..	..	..	..	..	..	..	1	6	Dysentery .....
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..
..	..	1	..	..	..	..	..	1	..	..	..	6	10	Erysipelas .....
..	2	2	..	..	..	..	..	2	..	..	1	11	16	Continued Fever ....
..	..	1	..	..	..	..	2	..	..	1	..	16	20	Typhus .....
1	..	3	..	..	..	..	..	3	..	1	1	16	4	Enteric or Typhoid ..
..	..	3	..	1	1	1	..	6	..	2	3	32	17	Febricula .....
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....
1	..	2	..	..	..	..	..	1	..	1	..	24	11	Rheumatic Fever ....
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....
9	..	34	5	5	9	5	7	17	6	7	22	258	228	Bronchitis & Catarrh
..	..	4	..	..	3	..	..	..	..	..	..	8	13	Influenza .....
..	..	4	2	1	..	..	..	1	..	..	..	23	23	Pleurisy & Pneumonia.
1	..	13	..	2	..	..	2	5	..	2	..	72	84	Phthisis .....
..	..	7	2	1	1	..	1	..	..	1	1	35	54	Constitutional Syphilis
16	1	90	4	9	4	9	20	26	7	23	51	708	795	All other diseases ....
3	..	51	..	2	..	1	1	15	..	33	2	217	245	Accidents .....
32	11	234	14	24	19	16	36	81	15	71	98	1523	1605	TOTAL .....

+ No Return.

indebted for the annexed Returns.

- (17) Dr. T. M. JOHNSON,  
(18) .. J. O. BRADBURY,  
(19) .. J. O. BRADBURY,  
(20) Dr. BRADDON,
- (21) Mr. S. WOODCOCK,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON.  
(24) .. JOSEPH FOSTER,
- (25) Mr. W. C. BARNISH,  
(26) .. J. V. L. WESTMACOTT,  
(27) .. R. P. O. GORMAN,  
(28) .. GEORGE CLEMENTS.

the reports of the Association, and has as far as practicable, been taken into account in the conclusion  
own from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomson.	Greengate Dis., Mr. Bowler.	Regent-rd. Dis., Mr. Tople.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	1	..	..	8	1	..	2	1	17	5
Measles .....	1	3	..	..	..	..	..	..	2	..	..	4	8
Whooping-cough.....	..	1	..	..	..	5	..	1	..	2	..	10	17
Scarlatina .....	1	..	..	..	..	..	1	..	..	..	..	5	4
Diarrhoea .....	2	2	..	..	..	..	..	..	3	1	..	8	11
Fever .....	1	..	2	..	3	15	1	5	8	16	4	109	68
Diseases of the Lungs	20	13	10	7	5	10	6	2	9	20	7	125	148
Other causes.....	13	16	20	4	12	10	12	2	..	..	..	..	..
TOTAL NO. OF DEATHS.	38	35	32	14	17	30	28	9	22	41	12	278	261
TOTAL NO. OF BIRTHS.	33	51	17	20	23	28	23	21	38	72	32	358	382

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 26th Dec.	5 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	TOTAL.	DISEASES.	4 Weeks ending 26th Dec.	5 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	TOTAL
2	1	2	5	Small-pox .....	23	34	48	105
52	57	19	128	Measles .....	18	54	52	124
46	68	56	170	Scarlet Fever.....	158	204	93	455
1	..	2	3	Diphtheria .....	..	..	..	..
50	110	71	231	Whooping-cough .....	4	4	8	16
1	6	3	10	Croup .....	..	3	3	6
204	294	242	740	Diarrhoea .....	117	144	140	401
..	1	..	1	Dysentery .....	4	7	8	19
..	..	..	..	Malignant Cholera.....	..	..	..	..
20	25	15	60	Erysipelas .....	18	32	22	72
12	7	8	27	Continued Fever .....	113	99	88	300
2	..	..	2	Typhus .....	167	135	90	392
1	5	1	7	Enteric or Typhoid .....	60	61	29	150
67	104	104	275	Febricula .....	161	210	242	643
3	1	..	4	Ague .....	1	..	..	1
55	71	55	181	Rheumatic Fever.....	61	113	117	291
..	..	..	..	Puerperal Fever.....	..	3	..	3
668	1441	1048	3357	Bronchitis and Catarrh .....	1063	1406	1105	3574
2	6	3	11	Influenza.....	18	15	23	56
45	57	45	147	Pleurisy and Pneumonia .....	72	95	81	248
62	100	94	256	Phthisis.....	219	349	292	860
19	34	19	72	Constitutional Syphilis .....	159	154	133	446
3241	4378	3842	11461	Accidents, and all other Diseases.....	3447	4740	3957	12154
4753	6766	5629	17148	TOTAL	5883	7892	6541	20316

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN MARCH.			Royal Infirmary, Dr. REED.	Salford Meteorologl. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L. W. Reynolds Esq.							
Inches.	Wet Days.															
Penketh .....	1.428	..... 15	NO RETURN.	NO RETURN.	NO RETURN.	NO RETURN.	NO RETURN.	NO RETURN.	NO RETURN.							
Eccles .....	1.400	..... 13														
Old Trafford ..	1.270	..... 10														
Salford .....	0.985	..... 14														
Wilmslow .....	.....	..... ..														
Royton .....	.....	..... ..														
Height of barometer (istern above sea level										130 ft.	108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.
Barometer.										INS.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level											29.818	29.827	29.818			29.819
Highest.....											29.983	29.980	29.983			30.080
Lowest .....											29.230	29.246	29.239			29.318
Range .....											0.774	0.734	0.744			0.762
Temperature.																
Adopted Mean .....											39.7	39.5	40.0			41.4
Range for Week .....											16.7	30.0	21.3			25.0
Daily Range .....											10.3	13.3	13.2			15.0
Maximum in Shade .....											50.7	52.0	51.5			52.7
Minimum in Shade .....											34.0	32.0	30.2			27.7
Temperature of Dew Point .....											32.4	33.1	30.3			34.4
Hygrometrical condition of the Atmosphere.											GRS.	GRS.	GRS.			GRS.
Degree of Humidity (Saturation—1,000)											0.756	0.784	0.678			0.776
Prevailing Winds .....											NE, W	NE	NE, W			NE
Rain .....											0.619	0.557	0.647			0.494
Ozonometer.																
Moffat .....											1.00	3.43	4.14			4.70
Schönbein .....				....	0.28	....			....							

April 3, 1869.

THOMAS MACKERETH, Esq., F.R.A.S.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, APRIL 10, 1869. No. 454

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, April the 10th, 1638 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1523, and in the corresponding week of last year it was 1416. The deaths during the week amounted to 45, being in the proportion of 1 death to every 36 cases.

There is a decrease in the cases of Small-Pox, the number having fallen from 21 to 11; 6 of these occurred in Manchester, 4 in Salford, and 1 in Ardwick.

Measles is becoming prevalent, the cases for the last three weeks amounting to 20, 30, and 39 respectively. Six of these occurred in Manchester, 7 in Salford, 3 in Hulme, 19 in Chorlton, and 4 in Ardwick.

There is a decrease in the cases of Scarlatina, the number having fallen from 23 to 13. Three of these occurred in Manchester, 7 in Salford, 1 in Hulme, and 2 in Chorlton.

There is a slight decrease in the cases of fever, the number being 41 instead of 43. Fifteen cases were attributed to Continued Fever, 18 to Typhus, and 8 to Typhoid Fever; 15; of the fever cases were treated in Hospitals and the remainder at their homes.

The cases of Bronchitis and other acute chest diseases have fallen from 289 to 269.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 223 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Eighty-one deaths were caused by diseases of the lungs, 13 by Fever, 11 by Scarlatina, and 11 by Measles.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 47.1°; at the Salford Observatory it was 45.5°; at Eccles 45.0°; and at Old Trafford, 46.4°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



MANCHESTER AND SALES

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.																
Area in Statute Acres .....		Manchester Township 1,645 .....														
Population in 1861 .....		" " 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	Workhouse. 7	ROYAL INFIRMARY.					CHILDREN		City Gaol. 15
									In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	
Small-pox .....	..	..	..	..	..	4	4	..	2	..	..	..	..	..	..	..
Measles .....	2	..	1	..	1	..	4	..	1	..	..	..	..	1	..	..
Scarlet Fever .....	..	..	..	..	..	1	1	..	..	..	..	2	..	..	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	1	..	..	..	..	..	1	..	..	..	..	..	..	3	..	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	..	..	1	..	..	..	1	1	..	..	..	..	..	9	6	..
Dysentery .....	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever.....	2	..	..	2	a1	..	5	..	..	..	..	..	..	..	..	..
Typhus .....	..	..	..	..	..	2	2	4	1	..	..	1	a2	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	..	..	..	..	..	a2	..	..	..
Febricula.....	1	..	..	..	2	3	6	2	..	1	..	..	1	6	1	..
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	1	..	1	..	..	..	2	1	3	5	1	1	4	1	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	7	6	10	9	4	8	44	11	..	38	3	2	7	6	4	..
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	..	..	1	1	..	3	5	4	..	2	..	..	2	2	..	..
Phthisis .....	..	2	2	2	..	..	6	6	1	22	1	4	5	6	3	..
Constitutional Syphilis .....	..	..	..	1	..	1	2	5	..	8	..	..	..	..	1	..
All other Diseases .....	25	8	15	9	6	21	84	60	23	188	3	8	5	77	90	..
Accidents .....	..	..	..	..	1	1	2	5	10	107	..	..	2	..	..	..
TOTAL .....	39	16	31	24	15	44	169	99	41	372	8	18	30	111	105	16

a Removed to Workhouse.      b 1 Removed to Workhouse.

Medical Officers to whom the Association

(1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9) Mr. W. H. CARRUTHERS,	(13) Mr. H. RUNCOR
(2) „ J. BROADBENT,	(6) Dr. LEDWARD,	(10) „ J. PORTER,	(14) „ W. M. MACC
(3) „ EDWARD MEACHAM,	(7) Mr. J. WESTMORELAND,	(11) „ C. CURRIE RITCHIE,	(15) „ J. OGDEN FL
(4) „ JOHN WALSH.	(8) „ J. P. SLEIGHTHOLME,	(12) „	(16) Dr. A. C. CLARK

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

## ONS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 10th day of April, 1869.

SALFORD.				HULME.			CHORLTON.		ARDWICK	PENDLETON AND PENDLEBURY.				Area in Statute Acres. Population in 1861.		DEATHS.
1,329 .....				477.....			646...		508.	2650.....						
70,967. ....				68,209. ..			44,850..		21739	24,448 .....						
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.		POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.		
17	18	19	20	21	22	23	24	25	26	27	28					
Regent Road.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.			
..	4	..	..	..	..	..	..	..	..	1	..	11	..	Small-pox .....	1	
..	..	7	..	2	..	1	4	..	1	3	15	39	7	Measles .....	1	
..	1	5	..	1	..	..	..	2	...	..	..	13	26	Scarlet Fever. ....	1	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	4	19	Whooping-cough ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..	
..	..	5	3	1	1	..	3	..	..	1	2	37	42	Diarrhœa .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	1	2	Dysentery .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	3	Erysipelas .....	..	
..	6	2	..	..	..	..	..	..	..	2	..	15	25	Continued Fever ....	..	
..	..	..	..	..	..	..	a2	b2	..	..	4	18	28	Typhus .....	3	
1	..	2	..	a2	..	..	..	1	..	..	..	8	3	Enteric or Typhoid ..	..	
..	..	5	..	..	2	3	1	3	..	1	1	36	55	Febricula .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..	
..	..	..	..	..	..	..	..	1	..	2	..	21	11	Rheumatic Fever ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Puerperal Fever.....	..	
4	..	36	2	7	5	3	10	14	1	8	30	248	201	Bronchitis & Catarrh	5	
..	..	..	..	..	..	..	..	..	..	..	..	..	15	Influenza .....	..	
..	..	4	..	..	..	..	..	..	..	1	..	21	15	Pleurisy & Pneumonia.	1	
1	..	12	..	1	..	1	2	2	1	4	7	85	66	Phthisis .....	7	
..	..	6	1	..	..	..	2	..	..	..	..	27	43	Constitutional Syphilis	..	
18	3	95	3	6	8	12	18	24	2	27	60	832	639	All other diseases ....	24	
3	..	49	..	..	1	1	2	13	..	25	..	222	215	Accidents .....	2	
27	14	228	9	20	17	21	44	62	5	75	119	1638	1416	TOTAL .....	45	

+ No Return.

indebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18) ..  
(19) ,, J. O. BRADBURY,  
(20) Dr. BRADDON,

(21) Mr. S. WOODCOCK,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON.  
(24) ,, JOSEPH FOSTER,

(25) Mr. W. C. BARNISH,  
(26) ,, J. V. L. WESTMACOTT,  
(27) ,, R. P. O. GORMAN,  
(28) ,, GEORGE CLEMENTS.

the reports of the Association, and has as far as practicable, been taken into account in the conclusion drawn from the weekly returns..



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tiptle.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	..	..	..	..	2	..	2	..
Measles .....	3	1	..	..	..	2	1	..	..	3	1	11	13
Whooping-cough.....	..	..	..	..	..	..	1	..	..	1	..	2	6
Scarlatina .....	2	1	..	2	..	2	..	2	1	1	..	11	13
Diarrhoea .....	..	1	..	..	..	1	2	..	1	1	..	5	5
Fever .....	1	1	7	..	3	4	7	1	..	19	4	13	14
Diseases of the Lungs	14	12	9	4	3	4	7	1	4	19	4	81	69
Other causes.....	18	6	17	1	3	10	8	5	10	17	3	98	114
TOTAL NO. OF DEATHS.	38	22	33	7	6	19	22	8	16	44	8	223	234
TOTAL NO. OF BIRTHS.	45	39	23	21	21	40	41	20	29	45	26	350	288

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 26th Dec.	5 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	TOTAL.	DISEASES.	4 Weeks ending 26th Dec.	5 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	TOTAL
2	1	2	5	Small-pox .....	23	34	48	105
52	57	19	128	Measles .....	18	54	52	124
46	68	56	170	Scarlet Fever.....	158	204	93	455
1	..	2	3	Diphtheria .....	..	..	..	..
50	110	71	231	Whooping-cough .....	4	4	8	16
1	6	3	10	Croup .....	..	3	3	6
204	294	242	740	Diarrhoea .....	117	144	140	401
..	1	..	1	Dysentery .....	4	7	8	19
20	25	15	60	Malignant Cholera.....	..	..	..	..
12	7	8	27	Erysipelas .....	18	32	22	72
2	..	..	2	Continued Fever .....	113	99	88	300
1	5	1	7	Typhus .....	167	135	90	392
67	104	104	275	Enteric or Typhoid .....	60	61	29	150
3	1	..	4	Febricula .....	161	240	242	643
55	71	55	181	Ague .....	1	..	..	1
..	..	..	..	Rheumatic Fever.....	61	113	117	291
868	1441	1048	3357	Puerperal Fever.....	..	3	..	3
2	6	3	11	Bronchitis and Catarrh .....	1063	1406	1105	3574
45	57	45	147	Influenza.....	18	15	23	56
62	100	94	256	Pleurisy and Pneumonia .....	72	95	81	248
19	34	19	72	Phthisis.....	219	349	292	860
3241	4378	3842	11461	Constitutional Syphilis .....	159	154	133	446
				Accidents, and all other Diseases.....	3447	4740	3967	12154
4753	6766	5629	17148	TOTAL	5883	7892	6541	20316

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN MARCH.				Royal Infirmary, Dr. REED.	Salford Meteorologi. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L. W. Reynolds Esq.
	Inches.	Wet Days.								
Penketh .....	1.428	.....	15							
Eccles .....	1.400	.....	13							
Old Trafford ..	1.270	.....	10							
Salford .....	0.985	.....	14							
Wilmslow .....	.....	.....	..							
Royton .....	.....	.....	..							
Height of barometer cistern above sea level				130 ft.	108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.
<b>Barometer.</b>				INS.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level					29.972	29.973	29.972			29.967
Highest.....					30.061	30.016	30.061			30.160
Lowest .....					29.573	530	29.573			29.640
Range .....					0.488	0.486	0.488			0.520
<b>Temperature.</b>				NO RETURN.				NO RETURN	NO RETURN.	
Adopted Mean .....					45.5	46.4	45.0			47.5
Range for Week .....					28.7	32.0	31.1			34.7
Daily Range .....					10.1	13.1	10.4			11.3
Maximum in Shade .....					64.9	67.0	66.0			68.3
Minimum in Shade .....					36.2	35.0	34.9			33.6
Temperature of Dew Point .....					40.6	38.1	39.8			41.6
<b>Hygrometrical condition of the Atmosphere.</b>					GRS.	GRS.	GRS.			GRS.
Degree of Humidity (Saturation—1,000)					0.834	0.736	0.822			0.869
Prevailing Winds .....					SW,E	E,SE	SW,E			W,E
Rain .....					0.556	0.616	0.686			0.730
<b>Ozonometer.</b>										
Moffat .....					0.18	2.00	4.14			4.60
Schonbein .....					....	1.28	....			....



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

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VOL. IX.]      WEEK ENDING SATURDAY, APRIL 17, 1869.      No. 455

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#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, April the 17th, 1555 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1638, and in the corresponding week of last year it was 1585. The deaths during the week amounted to 69, being in the proportion of 1 death to every 22 cases.

Small-Pox remains the same as it was in the preceding week, 11 cases being returned. Nine of these were observed in Manchester and 2 in Ardwick, the other districts being free from the disease.

There is this week a diminution in the cases of Measles, 23 being returned instead of 39. Thirteen of these occurred in the Chorlton Union Workhouse.

There is a slight rise in the cases of Scarlatina, 18 being returned instead of 13. Six of these occurred in Manchester and 12 in Salford. In the corresponding week of last year the number was 17.

As the weather becomes warmer the cases of Diarrhœa and Dysentery become more numerous, the numbers for the last three weeks under this head being 23, 38, and 44.

The fever return is not favorable this week, the increase upon the number of the previous week amounting to 12. Of the 53 cases of Fever returned for the week 11 were assigned to Continued Fever, 38 to Typhus, and 4 to Typhoid Fever.

The cases of Bronchitis and other acute chest diseases have decreased from 269 to 215. In the corresponding week of last year the number was 298.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 231 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Fifty-eight deaths were caused by diseases of the lungs, 14 by Fever, 12 by Scarlatina, and 8 by Measles.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 55.2°; at the Salford Observatory it was 55.9°; at Eccles 55.5°; and at Old Trafford, 56.7°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....	Manchester Township 1,645 .....														
Population in 1861 .....	" " 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN	
	1	2	3	4	5	6		7	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
Small-pox .....	..	..	..	3	..	2	5	2	..	..	..	2	..	..	..
Measles .....	1	..	..	..	2	..	3	..	..	..	..	..	..	2	..
Scarlet Fever .....	..	..	..	..	..	..	..	..	1	..	..	1	1	..	3
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	..	..	3	..	..	..	3	2	..	4	..	..	2	8	7
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	1	..	..	..	..	1	1	..	..	..	..	..	..	..
Continued Fever.....	1	1	..	1	..	..	3	..	..	..	..	..	..	..	..
Typhus .....	1	..	..	..	..	2	3	13	5	..	a2	2	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Febricula.....	..	..	2	..	..	1	3	5	..	..	..	4	1	9	1
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	1	..	1	..	..	..	2	..	..	..	1	2	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	5	5	2	2	2	7	23	6	1	38	1	5	6	7	4
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	..	1	1	..	1	1	4	3	..	..	..	..	1	..	..
Phthisis .....	..	1	2	1	..	1	5	8	..	25	3	3	..	4	6
Constitutional Syphilis .....	..	..	..	..	..	..	..	4	..	..	..	..	..	..	2
All other Diseases .....	19	9	11	10	1	11	61	46	24	129	5	4	10	77	104
Accidents .....	..	..	..	1	..	..	1	8	14	93	..	..	..	..	1
TOTAL .....	28	18	22	18	6	25	117	98	45	289	12	23	21	108	128

a Removed to Royal Infirmary. b Removed to Workhouse.

Medical Officers to whom the Association

(1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9) Mr. W. H. CARRUTHERS,	(13) Mr. H. RUNNELL,
(2) " J. BROADBENT,	(6) Dr. LEDWARD.	(10) " J. PORTER,	(14) " W. M. MANN,
(3) " EDWARD MEACHAM,	(7) Mr. J. WESTMORELAND,	(11) " C. CURRIE RITCHIE,	(15) " J. OGDEN,
(4) " JOHN WALSH.	(8) " J. P. SLEIGHTHOLME,	(12) " " "	(16) Dr. A. C. CLARKE.

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



SANITARY ASSOCIATION.

CTIONS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 17th day of April, 1869.

SALFORD.						DULME.			CHORLTON.		ARDWICK	PENDLETON & PENNIBURY.			Area in Statute Acres. Population in 1861.		DEATHS.			
..... 1,329 .....						..... 477. ....			.. 646. ...		508.	..... 2650.....			..... 24,448 .....					
..... 70,967. ....						.. 68,209. ..			.. 44,850..		21739									
POOR LAW DISTRICT			PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District		Poor Law District.		Ardwick & Ancoats Dispensary.		Chorlton Union Workhouse.		Total.		Corresponding Week last Year.	
Green-gate.	Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.				
6	17	18	19	20	21	22	23	24	25	26	27	28	29							
..	..	..	..	..	..	..	..	..	..	..	..	2	..	11	..	Small-pox .....				
1	..	..	..	3	..	..	..	..	..	1	..	..	13	23	8	Measles .....				
..	..	..	..	7	..	5	..	..	..	..	..	..	..	18	17	Scarlet Fever.....				
..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	1	Diphtheria .....				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	24	Whooping-cough ....				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....				
1	..	1	..	4	4	2	2	..	..	..	..	..	1	43	42	Diarrhœa .....				
1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	Dysentery .....				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..				
1	..	..	..	..	..	..	..	..	..	1	..	1	..	5	6	Erysipelas .....				
..	..	1	..	5	..	..	..	..	..	1	..	..	1	11	31	Continued Fever ....				
..	..	1	..	1	..	..	..	..	63	62	..	..	6	38	25	Typhus .....				
..	..	..	..	3	..	..	..	..	..	1	..	..	..	4	1	Enteric or Typhoid ..				
..	..	..	..	2	..	..	1	3	1	5	..	..	2	40	45	Febricula .....				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....				
..	..	..	..	..	..	1	..	1	1	..	2	1	3	14	12	Rheumatic Fever ....				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....				
6	3	6	..	32	3	4	..	1	9	9	3	10	7	188	260	Bronchitis & Catarrh				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	20	Influenza .....				
..	2	..	..	4	..	..	3	1	..	4	..	1	3	26	18	Pleurisy & Pneumonia.				
3	1	2	..	10	1	..	..	..	3	5	..	2	5	87	84	Phthisis .....				
2	..	2	..	6	..	..	..	2	5	..	..	..	1	27	43	Constitutional Syphilis				
24	12	29	4	89	2	11	8	11	19	24	7	24	51	780	726	All other diseases ....				
1	1	..	..	66	..	3	1	..	4	14	..	27	2	236	219	Accidents .....				
40	19	42	4	233	10	26	15	19	45	67	12	68	95	1555	1585	TOTAL .....				

is indebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18) „ JAMES CRAN.  
(19) „ J. O. BRADBURY,  
(20) Dr. BRADDON,

(21) Mr. S. WOODCOCK,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON.  
(24) „ JOSEPH FOSTER,

(25) Mr. W. C. BARNISH,  
(26) „ J. V. L. WESTMACOTT,  
(27) „ R. P. O. GORMAN,  
(28) „ GEORGE CLEMENTS.

n the reports of the Association, and has as far as practicable, been taken into account in the conclusion drawn from the weekly returns.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bowel.	Regent-rd. Dis., Mr. Tiplle.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallswoth.	TOTAL.	Corres- ponding week last year.
Small Pox.....	1	..	..	..	..	..	..	..	..	..	..	1	..
Measles .....	1	1	..	..	..	..	2	3	..	1	..	8	5
Whooping-cough.....	..	..	..	..	..	..	..	..	..	..	..	1	10
Scarlatina .....	1	1	..	..	3	1	1	..	1	4	..	12	22
Diarrhœa .....	..	..	..	..	..	..	..	..	..	..	..	..	7
Fever .....	2	..	5	..	1	..	4	1	..	..	1	14	18
Diseases of the Lungs	11	3	8	6	2	3	3	5	5	10	2	58	78
Other causes.....	15	13	20	6	9	11	25	7	13	13	5	137	146
TOTAL NO. OF DEATHS.	31	18	33	12	15	15	35	16	20	28	8	231	285
TOTAL NO. OF BIRTHS.	51	47	14	24	23	29	46	27	38	61	25	380	331

## Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.

Medical Officer of Health, John Whitmore, M.D.

Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.

Population in 1861, 390,915.

4 Weeks ending 26th Dec.	5 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	TOTAL.	DISEASES.	4 Weeks ending 26th Dec.	5 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	TOTAL
2	1	2	5	..... Small-pox .....	23	34	48	105
52	57	19	128	..... Measles .....	18	54	52	124
46	68	56	170	..... Scarlet Fever.....	158	204	93	455
1	..	2	3	..... Diphtheria .....	..	..	..	..
50	110	71	231	..... Whooping-cough .....	4	4	8	16
1	6	3	10	..... Croup .....	..	3	3	6
204	294	242	740	..... Diarrhœa .....	117	144	140	401
..	1	..	1	..... Dysentery .....	4	7	8	19
..	..	..	..	..... Malignant Cholera.....	..	..	..	..
20	25	15	60	..... Erysipelas .....	18	32	22	72
12	7	8	27	..... Continued Fever .....	113	99	88	300
2	..	..	2	..... Typhus .....	167	135	90	392
1	5	1	7	..... Enteric or Typhoid .....	60	61	29	150
67	104	104	275	..... Febricula .....	161	210	242	643
3	1	..	4	..... Ague .....	1	..	..	1
55	71	55	181	..... Rheumatic Fever.....	61	113	117	291
..	..	..	..	..... Puerperal Fever.....	..	3	..	3
868	1411	1048	3357	..... Bronchitis and Catarrh .....	1063	1406	1105	3574
2	6	3	11	..... Influenza.....	18	15	23	56
45	57	45	147	..... Pleurisy and Pneumonia .....	72	95	81	248
62	100	91	256	..... Phthisis .....	219	349	292	860
19	34	19	72	..... Constitutional Syphilis .....	159	154	133	446
5241	4378	3842	11461	.... Accidents, and all other Diseases.....	3447	4740	3967	12154
4753	6766	5629	17148	TOTAL	5883	7892	6541	20316

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN MARCH.				Royal Infirmary, Dr. REED.	Salford Meteorolog. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L. W. Reynolds Esq.
	Inches.	Wet Days.								
Penketh .....	1.428	.....	15							
Eccles .....	1.400	.....	13							
Old Trafford ..	1.270	.....	10							
Salford .....	0.985	.....	14							
Wilmslow ....	.....	.....	..	NO RETURN.						
Royton .....	.....	.....	..							
Height of barometer cistern above sea level										
Barometer.										
Mean @ 32° F., and reduced to sea level.										
Highest.....										
Lowest .....										
Range .....										
Temperature.										
Adopted Mean .....										
Range for Week .....										
Daily Range .....										
Maximum in Shade .....										
Minimum in Shade .....										
Temperature of Dew Point .....										
Hygrometrical condition of the Atmosphere.										
Degree of Humidity (Saturation—1,000)										
Prevailing Winds .....										
Rain .....										
Ozonometer.										
Moffat .....										
Schonbein .....										



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, APRIL 24, 1869.

No. 456

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, April the 24th, 1430 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1555, and in the corresponding week of last year it was 1556. The deaths during the week amounted to 55, being in the proportion of 1 death to every 26 cases.

There is this week a considerable rise in the cases of Small-Pox, 23 being returned against 11 in the preceding week; 16 of these were observed in Manchester, 5 in Salford, 1 in Hulme, and 1 in Chorlton.

There is but a slight improvement under Measles, 21 cases being returned instead of 23. The increase in the return of Measles during the previous fortnight was owing to the outbreak of Measles in the Chorlton Union Workhouse, which has now subsided.

The cases of Scarlatina amount to 18, being the same number as in the preceding week. Three occurred in Manchester, 11 in Salford, 1 in Hulme, and 3 in Chorlton.

There is a marked improvement in the Fever return, 32 cases being reported instead of 53. Twelve were attributed to Continued Fever, 15 to Typhus, and 5 to Typhoid Fever. Five of the Fever cases were treated in the Manchester Workhouse, 3 in the Royal Infirmary, 3 in the Salford Workhouse, and 8 in the Chorlton Union Workhouse.

The cases of Bronchitis and other acute chest diseases continue to diminish, the numbers for the last three weeks being 269, 215, and 186.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 211 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Seventy-seven deaths were caused by diseases of the lungs, 12 each by Scarlatina and Measles, 6 by Fever, and 4 by Small-Pox.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 50·3°; at the Salford Observatory it was 48·7°; at Eccles 48·2°; and at Old Trafford, 50·0°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,  
PALL MALL, MANCHESTER.



MANCHESTER AND SALE

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC I  
New Cases of Disease coming under Treatment D

MANCHESTER.																	
Area in Statute Acres.....		Manchester Township 1,645 .....															
Population in 1861.....		,, ,, 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.									
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	ROYAL INFIRMARY.					CHILDREN		City Gaol. 15		
								Workhouse. 7	In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14		
Small-pox .....	..	..	5	..	a1	1	7	6	2	..	..	..	1	..	..	..	..
Measles .....	..	1	..	..	..	..	1	..	..	..	..	..	1	3	..	..	..
Scarlet Fever .....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	2	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	..	..	1	..	..	1	2	2	..	3	..	..	..	7	6	..	..
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	1	1	3	..	..	..	..	..	..	..	..	..
Continued Fever.....	1	..	1	1	a1	..	4	1	..	..	..	..	..	..	..	..	..
Typhus .....	..	..	..	..	..	..	..	3	3	..	..	..	..	..	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	1	..	..	..	..	b1	..	1	..	..
Febricula.....	..	3	..	..	..	..	3	1	..	..	..	..	..	9	2	..	..
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	..	1	4	..	..	..	..	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	..	4	1	3	5	7	20	10	..	26	2	4	4	1	5	..	..
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	1	1	..	..	a2	..	4	2	..	2	..	..	1	..	..	..	..
Phthisis .....	..	1	..	1	2	4	8	11	..	16	..	1	3	6	5	..	..
Constitutional Syphilis .....	..	..	..	..	..	..	..	11	1	4	..	..	..	..	2	..	..
All other Diseases .....	27	5	9	8	4	12	65	58	28	26	3	4	4	84	88	..	..
Accidents .....	3	..	..	1	..	1	5	6	15	114	..	..	1	..	2	..	..
TOTAL .....	32	15	17	14	15	27	120	116	50	265	5	9	16	112	113	..	..

a Removed to Workhouse. b Removed to Royal Infirmary.

Medical Officers to whom the Association

- (1) Mr. R. M. MANN.

(2) „ J. BROADBENT,

(3) „ EDWARD MEACHAM,

(4) „ JOHN WALSH.
- (5) Mr. OCTAVIUS DEAN,

(6) Dr. LEDWARD,

(7) Mr. J. WESTMORELAND,

(8) „ J. P. SLEIGHTHOLME,
- (9) Mr. W. H. CARRUTHERS,

(10) „ J. PORTER,

(11) „ C. CURRIE RITCHIE,

(12) „
- (13) Mr. H. RUNCO

(14) „ W. M. MAC

(15) „ J. OGDEN F

(16) Dr. A. C. CLAR

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

IONS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 24th day of April, 1869.

SALFORD.					HULME.			CHORLTON.		ARDWICK.	PENDLETON & PENLEBURY.					DEATHS.
..... 1,329 .....					..... 477.....			... 646...		508.	..... 2650.....			Area in Statute Acres.		
..... 70,967. ....					.. 68,209. ..			.. 44,850..		21739	..... 24,448 .....			Population in 1861.		
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's									
17	18	19	20	21	22	23	24	25	26	27	28	29				
..	..	2	2	1	21	..	..	..	..	..	..	1	23	..	Small-pox .....	..
1	..	..	11	..	1	1	2	..	..	..	..	..	21	10	Measles .....	2
.	..	..	10	..	1	..	..	..	3	..	..	..	18	30	Scarlet Fever.....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..
..	..	..	..	..	..	..	..	..	..	..	..	1	3	20	Whooping-cough ....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	Croup .....	..
..	..	..	4	3	1	..	2	1	1	..	..	3	40	43	Diarrhoea .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	Dysentery .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..
..	..	..	2	..	..	..	..	1	..	..	..	..	8	4	Erysipelas .....	..
..	..	3	2	..	..	..	..	..	..	..	..	2	12	20	Continued Fever ....	..
..	..	..	3	..	..	..	..	..	..	..	..	6	15	22	Typhus .....	4
1	..	..	1	..	..	..	..	..	..	..	..	..	5	19	Enteric or Typhoid ..	1
..	..	..	4	..	..	..	5	3	6	..	2	..	37	35	Febricula .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..
..	1	..	..	..	..	..	..	..	..	..	..	1	7	31	Rheumatic Fever ....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	Puerperal Fever.....	..
6	7	..	34	4	2	..	3	9	2	1	4	15	170	240	Bronchitis & Catarrh	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	Influenza .....	..
..	..	..	3	..	..	2	..	..	..	..	..	..	16	22	Pleurisy & Pneumonia.	1
1	2	..	12	..	1	1	..	2	2	..	4	4	80	63	Phthisis .....	12
..	1	..	7	2	..	1	..	..	1	..	1	4	38	50	Constitutional Syphilis	1
9	12	..	74	3	10	10	7	16	25	7	15	60	698	724	All other diseases ....	26
..	1	..	53	..	1	..	..	3	13	..	24	..	239	207	Accidents .....	2
18	24	5	222	13	18	15	19	35	53	8	50	97	1430	1556	TOTAL .....	55

s indebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18) „ JAMES CRAN.  
(19) „ J. O. BRADBURY,  
(20) Dr. BRADDON,

(21) Mr. S. WOODCOCK,  
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(28) „ GEORGE CLEMENTS.

the reports of the Association, and has as far as practicable, been taken into account in the conclusion drawn from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bowler.	Regent-rd. Dis., Mr. Tipton.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	3	..	..	..	..	..	..	..	1	..	4	..
Measles .....	..	4	..	1	1	..	3	..	2	..	1	12	2
Whooping-cough.....	..	..	..	..	1	..	..	..	..	..	..	1	5
Scarlatina .....	3	1	..	..	1	1	1	..	..	4	1	12	21
Diarrhoea .....	..	1	..	..	..	1	..	..	..	1	..	3	6
Fever .....	1	1	2	..	1	1	..	..	..	..	..	6	13
Diseases of the Lungs	7	9	9	4	5	4	10	2	8	15	4	77	72
Other causes.....	9	14	11	4	3	9	11	6	7	18	4	96	117
TOTAL NO. OF DEATHS.	20	33	22	9	12	16	25	8	17	39	10	211	236
TOTAL NO. OF BIRTHS.	46	44	17	18	14	36	38	22	27	52	20	334	350

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	4 Weeks ending 27th March.	TOTAL.	DISEASES.	5 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	4 Weeks ending 27th March.	TOTAL
1	2	2	5	..... Small-pox .....	34	48	43	125
57	19	15	91	..... Measles .....	54	52	66	172
68	56	29	153	..... Scarlet Fever.....	204	93	63	365
..	2	5	7	..... Diphtheria .....	..	..	1	1
110	71	59	240	..... Whooping-cough .....	4	3	8	20
6	3	8	17	..... Group .....	3	3	7	13
294	242	238	774	..... Diarrhoea .....	144	140	119	403
1	..	1	2	..... Dysentery .....	7	8	5	20
..	..	..	..	..... Malignant Cholera.....	..	..	..	..
25	15	21	61	..... Erysipelas .....	32	22	14	68
7	8	9	24	..... Continued Fever .....	99	88	59	246
..	..	..	..	..... Typhus .....	135	90	73	298
5	1	15	21	..... Enteric or Typhoid .....	61	29	33	123
104	104	87	295	..... Febricula .....	240	242	150	632
1	..	..	1	..... Ague .....	..	..	..	..
71	55	56	182	..... Rheumatic Fever.....	113	117	69	299
..	..	1	1	..... Puerperal Fever.....	3	..	3	6
1441	1048	874	3363	..... Bronchitis and Catarrh .....	1406	1105	927	3438
6	3	5	14	..... Influenza.....	15	23	14	52
57	45	48	150	..... Pleurisy and Pneumonia .....	95	81	77	253
100	94	112	306	..... Phthisis.....	349	292	283	924
34	19	28	81	..... Constitutional Syphilis .....	154	133	116	403
4378	3842	3133	11353	....Accidents, and all other Diseases....	4740	3967	3591	12298
6766	5629	4746	17141	TOTAL	7892	6541	5726	20159

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN MARCH.				Royal Infirmary, Dr. REED.	Salford Meteorolog. Observatory, T. Mackereth, Esq.	Old Trafford, G.V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Inches. Wet Days.										
Penketh .....	1.428	.....	15							
Eccles .....	1.400	.....	13							
Old Trafford ..	1.270	.....	10							
Salford .....	0.985	.....	14							
Wilmslow .....	.....	.....	..							
Royton .....	.....	.....	..							
Height of barometer cistern above sea level				130 ft.	108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.
Barometer.				INS.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level					30.003	30.009	30.003	30.004		29.998
Highest.....					30.071	30.076	30.071	29.980		30.182
Lowest .....					29.657	29.676	29.657	29.550		29.733
Range .....					0.414	0.400	0.414	0.430		0.449
Temperature.										
Adopted Mean .....					48.7	50.0	48.2	47.4		51.0
Range for Week .....					26.0	31.9	30.2	10.7		38.2
Daily Range.....					14.6	19.8	17.9	14.4		22.0
Maximum in Shade .....					63.1	63.9	62.2	60.3		66.5
Minimum in Shade .....					37.1	32.0	32.0	49.6		28.3
Temperature of Dew Point .....					39.9	41.8	39.8	39.9		42.8
Hygrometrical condition of the Atmosphere.										
Degree of Humidity (Saturation—1,000)					GRS. 0.718	GRS. 0.740	GRS. 0.730	GRS. 0.752		GRS. 0.740
Prevailing Winds .....					SW,NW	S,SW	SW,NW	W		N,W,S
Rain .....					0.604	0.610	0.641	0.590		0.706
Ozonometer.										
Moffat .....					0.28	1.86	2.71	.....		.....
Schonbein .....					.....	.....	.....	5.00		4.90



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX. 1

WEEK ENDING SATURDAY, MAY, 1, 1869.

No. 457

#### DISEASES.—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, May the 1st, 1510 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1430, and in the corresponding week of last year it was 1352. The deaths in public practice during the week amounted to 52, being in the proportion of 1 death to every 29 cases.

The present return is very satisfactory.

Under Small-Pox, there is a decline to the extent of 9 cases, 14 being returned; 8 of these occurred in Manchester and 6 in Salford, the other districts being free from the disease.

The decrease in the cases of Measles is but slight, 20 being returned instead of 21. This disease was more prevalent during the week in Salford and Chorlton than in the other districts.

Scarlatina has been declining for many weeks, this epidemic being evidently on the wane. Thirteen cases were reported for the week, being 5 less than in the preceding one. Scarlatina, like Measles, seems to be more prevalent in Salford than in any of the other districts.

Diarrhoea and Dysentery have not fluctuated much, the numbers for the last three weeks being 44, 40, and 43.

The most satisfactory return is that of Fever, only 23 cases were observed in public practice during the week. Ten cases were attributed to Continued Fever, 10 to Typhus, and 3 to Typhoid Fever. For some years Fever has been very prevalent in Manchester, in the Autumn of last year more than 100 cases of the worst forms occurred weekly. The number of Fever cases has not been so low as in this week during the last two years.

The decrease in Bronchitis and other acute chest diseases continues to take place, 179 cases were returned for the week.

#### DEATHS.—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 222 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Sixty-eight deaths were caused by diseases of the lungs, 11 by Fever, 9 by Measles, and 7 by Scarlatina.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 51.9°; at the Salford Observatory it was 52.8°; at Eccles 52.4°; and at Old Trafford, 54.2°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS  
New Cases of Disease coming under Treatment during the Year 1861

MANCHESTER.																	
Area in Statute Acres .....	Manchester Township 1,645 .....																
Population in 1861 .....	,, ,, 185,050 .....																
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.									
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	Workhouse. 7	ROYAL INFIRMARY.						CHILDREN		City Gaol. 15
									In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14		
Small-pox .....	..	..	..	..	..	..	..	7	..	..	..	..	..	..	1	..	
Measles .....	1	..	..	..	..	..	1	..	..	..	..	..	..	3	..	..	
Scarlet Fever .....	..	..	..	..	..	..	..	..	..	..	..	1	..	2	..	..	
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	..	
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Diarrhoea.....	..	..	1	a1	1	3	6	1	..	..	..	..	..	6	7	..	
Dysentery .....	..	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Erysipelas .....	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	
Continued Fever.....	1	..	..	1	..	..	2	1	..	..	..	..	..	..	..	..	
Typhus .....	..	..	..	..	..	3	3	1	..	..	..	2	..	..	..	..	
Enteric or Typhoid .....	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	
Febricula.....	1	..	..	1	..	3	5	..	..	1	..	..	..	18	4	..	
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Rheumatic Fever .....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Bronchitis and Catarrh .....	6	1	6	2	1	5	21	5	..	23	5	1	3	4	12	4	
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Pleurisy and Pneumonia....	..	..	..	..	..	..	..	2	..	2	..	..	1	1	1	..	
Phthisis .....	..	..	1	1	..	..	2	4	1	24	2	3	2	2	6	1	
Constitutional Syphilis .....	..	1	..	1	..	..	2	6	..	4	..	..	..	1	..	3	
All other Diseases .....	8	6	7	6	2	12	41	55	29	165	4	6	2	81	95	2	
Accidents .....	3	..	..	..	..	..	3	7	14	134	..	..	1	..	1	..	
TOTAL .....	20	8	15	13	5	26	87	90	45	355	11	13	10	121	127	17	

a 1 Removed to Workhouse.

Medical Officers to whom the Association are indebted for their assistance

- (1) Mr. R. M. MANN.

(2) " J. BROADBENT,

(3) " EDWARD MEACHAM,

(4) " JOHN WALSH.
- (5) Mr. OCTAVIUS DEAN,

(6) Dr. LEDWARD.

(7) Mr. J. WESTMORELAND,

(8) " J. P. SLEIGHTHOLME,
- (9) Mr. W. H. CARRUTHERS,

(10) " J. PORTER,

(11) " C. CURRIE RITCHIE,

(12) "
- (13) Mr. H. RUNCORN,

(14) " W. M. MACCA,

(15) " J. OGDEN FLEMING,

(16) Dr. A. C. CLARK

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

## DONS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 1st day of May, 1869.

SALFORD.					HULME.			CHORLTON.		ARDWICK	PENDLETON & PENNIBURY.						DEATHS.	
... 1,329 .....					... 477 .....			... 646 ...		508.	... 2650 .....				Area in Statute Acres.			
... 70,967. ....					... 68,209. ...			... 44,850 ...		21739	... 24,448 .....				Population in 1861.			
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS													
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.			
17	18	19	20	21	22	23	24	25	26	27	28	29						
..	..	6	..	..	..	..	..	..	..	..	..	..	14	..	Small-pox .....	..		
2	..	..	5	..	1	..	..	..	6	..	..	1	20	22	Measles .....	1		
..	..	..	8	..	..	..	..	..	..	..	2	..	13	18	Scarlet Fever.....	1		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	3	22	Whooping-cough ....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	Croup .....	..		
..	1	..	4	6	1	1	..	1	1	1	..	1	41	51	Diarrhœa .....	2		
..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	Dysentery .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..		
..	..	..	..	..	..	..	..	1	2	..	..	..	6	5	Erysipelas .....	..		
..	..	2	3	..	..	..	..	..	1	..	..	1	10	20	Continued Fever ....	..		
..	..	..	..	..	..	..	..	al	..	..	..	2	10	23	Typhus .....	3		
..	..	..	2	..	..	..	..	..	..	..	..	..	3	11	Enteric or Typhoid ..	..		
..	1	..	4	..	..	1	..	4	2	1	4	1	48	46	Febricula .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..		
..	..	..	..	..	..	..	..	1	1	..	1	..	5	9	Rheumatic Fever ....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....	..		
3	5	..	31	3	4	1	1	3	6	2	5	13	163	191	Bronchitis & Catarrh	3		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	Influenza .....	..		
1	..	..	3	..	..	..	..	..	1	..	1	3	16	23	Pleurisy & Pneumonia.	1		
3	2	..	9	..	2	1	..	..	5	1	1	3	75	72	Phthisis .....	9		
1	..	..	4	1	..	..	..	1	..	1	1	..	25	43	Constitutional Syphilis	..		
10	10	2	100	2	5	8	9	18	29	4	29	44	773	613	All other diseases ....	29		
1	..	..	63	..	2	2	..	6	18	..	26	4	283	175	Accidents .....	3		
21	19	10	236	12	15	14	10	36	72	10	70	73	1510	1352	TOTAL .....	52		

indebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18) „ JAMES CRAN.  
(19) „ J. O. BRADBURY,  
(20) Dr. BRADDON,

(21) Mr. S. WOODCOCK,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON.  
(24) „ JOSEPH FOSTER,

(25) Mr. W. C. BARNISH,  
(26) „ J. V. L. WESTMACOTT,  
(27) „ R. P. O. GORMAN,  
(28) „ GEORGE CLEMENTS.

the reports of the Association, and has as far as practicable, been taken into account in the conclusion  
wn from the weekly returns.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomson.	Greengate Dis., Mr. Bowet.	Regent-rd. Dis., Mr. Tipler.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	1	..	..	..	..	..	..	..	..	..	1	..
Measles .....	1	..	..	..	2	1	2	..	..	2	1	9	7
Whooping-cough.....	..	..	1	..	..	..	..	..	..	1	1	3	9
Scarlatina .....	3	1	..	..	..	1	1	..	1	..	..	7	15
Diarrhœa .....	..	2	..	2	..	..	..	..	..	..	1	5	1
Fever .....	2	1	2	1	..	..	1	..	..	..	1	11	20
Diseases of the Lungs	9	11	4	5	9	4	4	3	8	10	1	68	77
Other causes.....	12	9	16	11	7	7	15	4	7	26	4	118	133
TOTAL NO. OF DEATHS.	27	25	23	19	18	13	23	9	16	39	10	222	262
TOTAL NO. OF BIRTHS.	46	42	24	14	16	33	46	14	33	58	20	346	352

## Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
 Medical Officer of Health, John Whitmore, M.D.  
 Population in 1861, 161630.

At Pauper, Charitable, and Public Institutions in  
 MANCHESTER and SALFORD.  
 Population in 1861, 390,315.

5 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	4 Weeks ending 27th March.	TOTAL.	DISEASES.	5 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	4 Weeks ending 27th March.	TOTAL
1	2	2	5	..... Small-pox .....	34	48	43	125
57	19	15	91	..... Measles .....	54	52	66	172
68	56	29	153	..... Scarlet Fever.....	204	93	68	365
..	2	5	7	..... Diphtheria .....	..	..	1	1
110	71	59	240	..... Whooping-cough .....	4	8	8	20
6	3	8	17	..... Croup .....	3	3	7	13
294	242	238	774	..... Diarrhœa .....	144	140	119	403
1	..	1	2	..... Dysentery .....	7	8	5	20
..	..	..	..	..... Malignant Cholera.....	..	..	..	..
25	15	21	61	..... Erysipelas .....	32	22	14	68
7	8	9	24	..... Continued Fever .....	99	88	59	246
..	..	..	..	..... Typhus .....	135	90	73	298
5	1	15	21	..... Enteric or Typhoid .....	61	29	33	123
104	104	87	295	..... Febricula .....	240	242	150	632
1	..	..	1	..... Ague .....	..	..	..	..
71	55	56	182	..... Rheumatic Fever.....	113	117	69	299
..	..	1	1	..... Puerperal Fever .....	3	..	3	6
1441	1048	874	3363	..... Bronchitis and Catarrh .....	1406	1105	927	3438
6	3	5	14	..... Influenza .....	15	23	14	52
57	45	48	150	..... Pleurisy and Pneumonia .....	95	81	77	253
100	94	112	306	..... Phthisis.....	349	292	283	924
34	19	28	81	..... Constitutional Syphilis .....	154	133	116	403
4378	3842	3133	11353	.... Accidents, and all other Diseases.....	4740	3967	3591	12293
6766	5629	4746	17141	TOTAL	7892	6541	5726	20159

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN MARCH.			Royal Infirmary, Dr. REED.	Salford Meteorologl. Observatory, T. Mackereth, Esq.	Old Trafford, G.V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L.W. Reynolds Esq.
Inches.	Wet Days.								
Penketh .....	2.726	.....	15						
Eccles .....	2.292	.....	15						
Old Trafford ..	2.096	.....	14						
Salford .....	2.176	.....	14						
Wilmslow ....	.....	.....	..						
Royton .....	.....	.....	..						
Height of barometer cistern above sea level			130 ft.	108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.
<b>Barometer.</b>			INS.	INS.	N S.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level				30.299	30.318	30.299	30.293		30.291
Highest.....			Unreduced {	30.363	30.414	30.363	30.252		30.450
Lowest .....				30.009	29.998	30.009	29.918		30.092
Range .....				0.354	0.415	0.354	0.334		0.358
<b>Temperature.</b>			NO RETURN.						
Adopted Mean .....				52.8	54.2	52.4	50.9		54.2
Range for Week .....				30.2	32.3	32.8	* 33.1		40.3
Daily Range.....				20.4	23.7	22.0	19.9		27.2
Maximum in Shade .....				71.7	71.3	70.1	66.5		72.3
Minimum in Shade .....				41.5	39.0	37.3	33.4		32.0
Temperature of Dew Point .....				42.6	42.1	40.4	41.3		43.9
<b>Hygrometrical condition of the Atmosphere.</b>									
Degree of Humidity (Saturation—1,000)				GRS. 0.685	GRS. 0.637	GRS. 0.644	GRS. 0.697		GRS. 0.680
Prevailing Winds .....				NE	NE	NE			
Rain .....				....	....	....	0.005		....
<b>Ozonometer.</b>									
Moffat .....				....	....	2.85	....		....
Schonbein .....				....	....	....	3.00		4.50

\* ERRATUM.—In last week's Return 10.7 should have been 25.7.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, MAY, 8, 1869.

No. 457

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, May the 8th, 1350 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1510, and in the corresponding week of last year it was 1484. The deaths in public practice during the week amounted to 52, being in the proportion of 1 death to every 26 cases.

The present return is not so satisfactory as the preceding one.

Twenty-five cases of Small-Pox are returned, showing an increase of 11 upon the number of the previous week. This disease is at present much more prevalent in Manchester than in any of the other districts. Eighteen cases were observed in Manchester, 3 in Salford, 1 in Hulme, and 3 in Chorlton.

There is a slight improvement this week in the return of Measles, 18 cases being reported instead of 20.

Scarlatina shows an increase of 7 cases for the week, 20 being returned. The largest number occurred in Manchester, where 12 cases were observed. Six cases occurred in Salford, 1 in Hulme, and 1 in Chorlton.

The Fever return is not so favourable this week as it was in the preceding one, there being an increase of 13 cases,—18 cases of Continued Fever, 12 of Typhus, and 6 of Typhoid Fever were observed in the public practice of the week. In the corresponding week of last year the cases of Fever amounted to 54.

The cases of Bronchitis and other acute chest diseases have risen from 179 to 202. This was undoubtedly caused by the cold weather which prevailed during the week.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 229 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Sixty-seven deaths were caused by diseases of the lungs, 11 by Measles, 9 by Scarlatina, 7 by Diarrhoea, and only 5 by Fever.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 50.5°; at the Salford Observatory it was 46.3°; at Eccles 45.7°; and at Old Trafford, 47.1°. The weather was, therefore, much colder during the week in this neighbourhood than at Greenwich.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



MANCHESTER AND SALE

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS.  
New Cases of Disease coming under Treatment

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	" " 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	ROYAL INFIRMARY.						CHILDREN		City Gaol. 15
								Workhouse. 7	In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	
Small-pox .....	1	..	1	..	b1	2	5	8	..	..	b2	3	..	..	..	..
Measles .....	..	..	..	1	..	..	1	..	..	..	..	..	..	4	1	..
Scarlet Fever .....	..	..	..	..	2	1	3	2	1	..	..	..	1	3	2	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea .....	..	..	..	..	..	..	..	2	..	..	..	..	..	3	3	..
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Malignant Cholera .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	1	1	2	..	..	..	..	..	..	..	..
Continued Fever .....	6	..	..	..	..	..	6	2	..	..	b3	..	..	..	..	..
Typhus .....	..	..	..	..	..	1	1	6	..	..	..	1	..	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..
Febricula .....	1	..	..	..	..	..	1	1	1	..	..	..	..	6	1	..
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	7	2	9	1	2	1	..	..	..
Puerperal Fever .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	6	1	1	a6	2	4	20	7	1	36	2	..	1	5	8	..
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia .....	..	..	..	..	..	..	..	2	2	..	..	1	..	..	2	..
Phthisis .....	..	..	..	..	..	..	..	3	2	20	2	2	4	2	1	..
Constitutional Syphilis .....	..	..	..	..	..	2	2	4	..	3	1	..	..	..	..	..
All other Diseases .....	9	4	4	1	3	9	30	50	32	120	4	5	7	57	72	..
Accidents .....	1	1	..	..	..	1	3	4	13	72	3	..	2	..	..	..
TOTAL .....	24	6	6	8	8	21	73	100	54	260	18	14	18	80	90	1

a 1 Removed to Workhouse. b Removed to Workhouse.

Medical Officers to whom the Association

1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9) Mr. W. H. CARRUTHERS,	(13) Mr. H. RUNCO
2) „ J. BROADBENT,	(6) Dr. LEDWARD,	(10) „ J. PORTER,	(14) „ W. M. MAC
3) „ EDWARD MEACHAM,	(7) Mr. J. WESTMORELAND,	(11) „ C. CURRIE RITCHIE,	(15) „ J. OGDEN F
4) „ JOHN WALSH.	(8) „ J. P. SLEIGHTHOLME,	(12) „	(16) Dr. A. C. CLAR

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

## DISTRICTS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 8th day of May, 1869.

SALFORD.					HULME.			CHORLTON.		ARDWICK	PENDLETON & PENDLEBURY.						DEATHS.	
..... 1,329 .....					..... 477 .....			.. 646...		508.	..... 2650.....				Area in Statute Acres.			
..... 70,967. ....					.. 68,209. ..			.. 44,850..		21739	..... 24,448 .....				Population in 1861.			
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS													DISEASES.
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.				
17	18	19	20	21	22	23	24	25	26	27	28	29						
..	..	2	1	..	61	..	..	..	..	..	..	3	25	..	Small-pox .....	..		
..	..	..	4	..	..	..	..	1	2	1	1	2	18	17	Measles .....	1		
..	..	..	6	..	1	..	..	..	1	...	..	..	20	24	Scarlet Fever .....	1		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..		
..	..	..	..	..	..	1	..	..	1	..	..	..	2	10	Whooping-cough .....	..		
..	..	..	1	..	..	..	..	..	..	..	..	..	1	2	Croup .....	..		
..	1	..	5	8	..	1	2	..	..	..	..	5	34	40	Diarrhoea .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	Dysentery .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	3	5	Erysipelas .....	1		
..	..	1	3	..	..	1	..	61	..	..	..	1	18	20	Continued Fever .....	..		
..	..	..	..	..	..	..	..	61	..	..	..	3	12	27	Typhus .....	..		
..	..	..	1	..	1	..	..	1	1	..	..	..	6	7	Enteric or Typhoid ..	..		
..	..	..	4	..	1	1	1	2	7	..	..	1	29	43	Febricula .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..		
1	..	..	..	..	..	..	2	1	..	..	1	..	27	11	Rheumatic Fever .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever .....	..		
11	3	..	29	2	..	1	1	12	5	3	4	25	183	220	Bronchitis & Catarrh	2		
..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	Influenza .....	..		
1	..	..	4	..	..	..	1	1	..	1	1	2	18	17	Pleurisy & Pneumonia.	3		
..	2	..	9	1	..	..	..	..	2	1	..	3	56	79	Phthisis .....	7		
2	..	..	4	1	..	1	1	..	..	..	1	3	26	41	Constitutional Syphilis	..		
15	11	2	87	3	9	4	4	16	34	6	21	63	663	718	All other diseases .....	34		
1	..	..	57	1	..	..	5	2	16	..	24	4	208	198	Accidents .....	3		
31	17	5	215	16	13	10	17	38	69	12	53	115	1350	1484	TOTAL .....	52		

is indebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18) „ JAMES CRAN.  
(19) „ J. O. BRADBURY,  
(20) Dr. BRADDON,

(21) Mr. S. WOODCOCK,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON.  
(24) „ JOSEPH FOSTER,

(25) Mr. W. C. BARNISH,  
(26) „ J. V. L. WESTMACOTT,  
(27) „ R. P. O. GORMAN,  
(28) „ GEORGE CLEMENTS.

the reports of the Association, and has as far as practicable, been taken into account in the conclusion drawn from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tupples.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	2	3	..	1	..	1	1	..	2	1	..	11	6
Measles .....	..	..	..	1	..	..	..	..	..	1	2	4	8
Whooping-cough .....	1	..	1	1	2	..	..	2	1	..	1	9	26
Scarlatina .....	1	..	..	..	2	..	..	1	..	1	2	7	2
Diarrhoea .....	1	..	..	..	..	..	3	..	..	1	..	5	13
Fever .....	1	..	..	..	4	5	5	1	9	6	2	67	68
Diseases of the Lungs .....	9	11	11	4	8	10	13	11	7	28	4	126	121
Other causes .....	14	8	16	7	8	10	13	11	7	28	4	126	121
TOTAL NO. OF DEATHS.	28	22	28	14	16	16	22	15	19	38	11	229	244
TOTAL NO. OF BIRTHS.	41	39	11	11	22	31	52	21	27	62	17	334	371

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	4 Weeks ending 27th March.	TOTAL.	DISEASES.	5 Weeks ending 30th Jan.	4 Weeks ending 27th Feb.	4 Weeks ending 27th March.	TOTAL
1	2	2	5	Small-pox .....	34	48	43	125
57	19	15	91	Measles .....	54	52	66	172
68	56	29	153	Scarlet Fever .....	204	93	63	365
..	2	5	7	Diphtheria .....	..	..	1	1
110	71	59	240	Whooping-cough .....	4	8	8	20
6	3	8	17	Croup .....	3	3	7	13
294	242	238	774	Diarrhoea .....	144	140	119	403
1	..	1	2	Dysentery .....	7	8	5	20
..	..	..	..	Malignant Cholera .....	..	..	..	..
25	15	21	61	Erysipelas .....	32	22	14	68
7	8	9	24	Continued Fever .....	99	88	59	246
..	..	..	..	Typhus .....	135	90	73	298
5	1	15	21	Enteric or Typhoid .....	61	29	33	123
104	104	87	295	Febricula .....	240	242	150	632
1	..	..	1	Ague .....	..	..	..	..
71	55	56	182	Rheumatic Fever .....	113	117	69	299
..	..	1	1	Puerperal Fever .....	3	..	3	6
1441	1048	874	3363	Bronchitis and Catarrh .....	1406	1105	927	3438
6	3	5	14	Influenza .....	15	23	14	52
57	45	48	150	Pleurisy and Pneumonia .....	95	81	77	253
100	94	112	306	Phthisis .....	349	292	283	924
34	19	28	81	Constitutional Syphilis .....	154	133	116	403
4378	3842	3133	11353	Accidents, and all other Diseases .....	4740	3957	3591	12298
6766	5629	4746	17141	TOTAL	7892	6541	5726	20159

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN MARCH.			Royal Infirmary, Dr. REED.	Salford Meteorologl. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAR, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Inches.	Wet Days.								
Penketh .....	2.726	15							
Eccles .....	2.292	15							
Old Trafford ..	2.096	14							
Salford .....	2.176	14							
Wilmslow .....	..	..							
Royton .....	..	..							
Height of barometer cistern above sea level			130 ft.	108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.
Barometer.			INS.	INS.	N. S.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level				29.657	29.662	29.657	29.650		29.645
Highest .....				29.967	29.990	29.967	29.860		30.054
Lowest .....				28.955	28.942	28.955	28.834		29.028
Range .....				1.012	1.048	1.012	1.026		1.026
Temperature.									
Adopted Mean .....				46.3	47.1	45.7	45.1		47.5
Range for Week .....				20.1	25.2	23.5	22.3		30.4
Daily Range .....				9.9	12.9	11.9	10.5		13.6
Maximum in Shade .....				60.0	62.2	60.5	57.5		63.7
Minimum in Shade .....				39.9	37.0	37.0	35.2		33.3
Temperature of Dew Point .....				40.9	40.9	40.6	39.9		41.6
Hygrometrical condition of the Atmosphere.									
Degree of Humidity (Saturation—1,000)				GRS. 0.828	GRS. 0.798	GRS. 0.829	GRS. 0.820		GRS. 0.809
Prevailing Winds .....				NE	NE	NE	ESE		NE,E
Rain .....				1.370	1.480	1.672	2.083		1.500
Ozonometer.									
Moffat .....				0.14	2.86	4.71	..		3.60
Schonbein .....				..	0.43	..	8.57		..



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

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VOL. IX. 1 WEEK ENDING SATURDAY, MAY, 15, 1869. No. 459

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#### DISEASES.—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, May the 15th, 1353 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1350, and in the corresponding week of last year it was 1615. The deaths in public practice during the week amounted to 67, being in the proportion of 1 death to every 20 cases.

The return for this week is satisfactory.

There is a considerable decrease in the cases of Small-Pox, 10 cases being reported instead of 25; 6 of these occurred in Manchester and 4 in Salford.

The cases of Measles have risen from 18 to 27. This disease was very prevalent during the week in Chorlton, where 14 cases occurred; 3 cases were returned from Manchester and 10 from Salford.

The number of Scarlatina cases has fallen from 20 to 15. Four cases occurred in Manchester, 3 in Salford, 3 in Hulme, and 5 in Chorlton.

The most satisfactory return is that of Fever; the week before last 23 cases of the severer forms were reported, which was the lowest number in any one week during the last two years, this week the number has fallen to 16; 2 of these were assigned to Continued Fever, 8 to Typhus, and 6 to Typhoid Fever.

The cases of Bronchitis and other acute chest diseases have fallen from 202 to 187.

#### DEATHS.—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 198 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Sixty-seven deaths were caused by diseases of the lungs, 8 by Measles, 8 by Scarlatina, 5 by Diarrhoea, and 4 each by Fever and Small-Pox.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 51.2°; at the Salford Observatory it was 48.2°; at Eccles 47.6°; and at Old Trafford, 48.5°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....	Manchester Township 1,645 .....														
Population in 1861 .....	" " 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN	
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox .....	..	..	..	..	..	..	..	2	3	..	..	1	..	..	..
Measles .....	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..
Scarlet Fever .....	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	1	1	..	..	..	..	..	..	1	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea .....	..	1	..	..	..	1	2	3	..	1	..	..	..	7	4
Dysentery .....	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..
Malignant Cholera .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..
Continued Fever .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Typhus .....	..	..	..	..	..	..	..	1	2	..	..	..	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Febricula .....	1	..	..	..	1	2	4	..	..	1	..	1	..	7	2
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	..	2	4	1	..	..	..	..
Puerperal Fever .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	4	3	3	6	4	3	23	5	..	19	1	..	1	..	6
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia .....	..	..	..	..	..	5	5	4	..	2	..	..	2	2	1
Phthisis .....	..	..	1	1	..	..	2	1	..	22	..	6	1	2	3
Constitutional Syphilis .....	..	..	..	..	..	..	..	8	..	5	..	..	2	..	1
All other Diseases .....	3	7	16	3	9	17	55	55	16	127	5	7	6	61	60
Accidents .....	..	1	..	..	..	2	3	6	15	110	1	..	..	..	..
TOTAL .....	8	12	20	10	14	32	96	86	40	291	8	15	13	84	79

a 1 Removed to Workhouse.

Medical Officers to whom the Associates

(1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9) Mr. W. H. CARRUTHERS,	(13) Mr. H. RUNCO
(2) „ J. BROADBENT,	(6) Dr. LEDWARD,	(10) „ J. PORTER,	(14) „ W. M. MAC
(3) „ EDWARD MEACHAM,	(7) Mr. J. WESTMORELAND,	(11) „ C. CURRIE RICHIE,	(15) „ J. OGDEN F
(4) „ JOHN WALSH.	(8) „ J. P. SLEIGHTHOLME,	(12)	(16) Dr. A. C. CLAR

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

## DISTRICTS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 15th day of May, 1869.

SALFORD.			HULME.			CHORLTON.		ARDWICK.		PENDLETON & PENDLETON KEY.							
1,329			477			646		508		2650			Area in Statute Acres.				
70,967			68,209			44,850		21,739		24,448			Population in 1861.				
POOR LAW DISTRICT			PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS											
Regent Road.	Regent Road No. 2.		Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	DEATHS.
17	18	19	20	21	22	23	24	25	26	27	28	29					
..	..	3	..	1	..	..	..	..	..	..	..	..	10	..	..	Small-pox .....	..
1	..	..	9	..	..	..	..	2	11	..	..	1	27	26	..	Measles .....	1
..	..	..	3	..	2	..	1	..	4	..	..	1	15	33	..	Scarlet Fever .....	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..
..	..	..	..	..	..	..	1	..	..	..	..	..	3	13	..	Whooping-cough .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	Croup .....	..
1	..	..	5	9	..	1	..	..	..	..	..	2	37	59	..	Diarrhoea .....	2
..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	..	Dysentery .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..
..	..	..	..	..	..	1	..	..	..	..	2	1	6	4	..	Erysipelas .....	..
..	..	..	2	..	..	..	..	..	..	..	..	..	2	19	..	Continued Fever .....	..
..	..	..	1	..	..	..	..	..	..	..	..	4	8	39	..	Typhus .....	3
..	..	..	1	..	3	..	..	..	1	..	..	..	6	7	..	Enteric or Typhoid ..	..
1	..	..	4	..	1	1	2	1	4	..	1	1	33	40	..	Febricula .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	Ague .....	..
..	4	..	..	..	..	..	..	..	..	..	2	..	14	7	..	Rheumatic Fever .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever .....	..
4	17	3	..	29	4	1	4	3	3	8	1	6	23	164	185	Bronchitis & Catarrh ..	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	..	Influenza .....	..
..	..	..	3	..	..	..	..	..	..	..	1	2	23	19	..	Pleurisy & Pneumonia ..	3
1	..	..	10	..	..	..	..	1	2	1	6	4	62	78	..	Phthisis .....	18
..	2	..	5	..	1	1	..	..	2	..	..	4	33	71	..	Constitutional Syphilis ..	..
0	14	17	3	97	1	8	4	7	15	15	4	21	45	667	780	All other diseases .....	31
1	1	..	57	..	..	..	2	..	17	..	26	3	242	220	..	Accidents .....	3
3	37	22	6	226	15	16	12	16	22	64	6	65	91	1353	1615	TOTAL .....	67

is indebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18) „ JAMES CRAN.  
(19) „ J. O. BRADBURY,  
(20) Dr. BRADDON,

(21) Mr. S. WOODCOCK,  
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the report of the Association, and has as far as practicable, been taken into account in the conclusion drawn from the weekly returns.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bowcl.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	1	2	1	..	..	..	..	..	..	..	1	4	..
Measles .....	1	1	..	..	1	2	2	..	1	..	..	8	5
Whooping-cough.....	..	..	..	..	..	..	..	..	2	..	..	2	4
Scarlatina .....	2	..	..	..	..	1	1	1	2	1	..	8	22
Diarrhœa .....	1	2	1	..	..	..	..	1	2	..	..	5	..
Fever .....	..	1	..	..	..	2	..	..	1	..	..	4	8
Diseases of the Lungs	12	8	10	5	2	3	4	3	5	7	5	64	77
Other causes.....	11	10	12	5	5	9	14	3	12	18	4	103	119
TOTAL NO. OF DEATHS.	27	24	24	10	8	17	21	8	23	26	10	198	255
TOTAL NO. OF BIRTHS.	50	32	19	16	19	32	39	30	27	63	22	349	358

## Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.

Medical Officer of Health, John Whitmore, M.D.

Population in 1861, 161630.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.

Population in 1861, 390,815.

4 Weeks ending 27th Feb.	1 Weeks ending 27th March.	5 Weeks ending 1st May.	TOTAL.	DISEASES.	4 Weeks ending 27th Feb.	4 Weeks ending 27th March.	5 Weeks ending 1st May.	TOTAL
2	2	5	9	..... Small-pox .....	48	43	80	171
19	15	25	59	..... Measles .....	52	66	133	251
56	29	46	131	..... Scarlet Fever.....	93	68	85	246
2	5	1	8	..... Diphtheria .....	..	1	1	2
71	59	123	253	..... Whooping-cough .....	8	8	11	27
3	8	4	15	..... Croup .....	3	7	..	10
242	238	341	821	..... Diarrhœa .....	140	119	183	442
..	1	..	1	..... Dysentery .....	8	5	5	18
..	..	..	..	..... Malignant Cholera.....	..	..	..	..
15	21	32	68	..... Erysipelas .....	22	14	25	61
8	9	14	31	..... Continued Fever .....	88	59	59	206
..	..	..	..	..... Typhus .....	90	73	97	260
1	15	5	21	..... Enteric or Typhoid .....	29	33	36	98
104	87	93	289	..... Febricula .....	242	150	193	585
..	..	..	..	..... Ague .....	..	..	..	..
55	56	75	186	..... Rheumatic Fever.....	117	69	71	257
..	1	1	2	..... Puerperal Fever .....	..	3	..	3
1048	874	1199	3121	..... Bronchitis and Catarrh .....	1105	927	1027	3059
3	5	10	18	..... Influenza.....	23	14	9	46
45	48	43	136	..... Pleurisy and Pneumonia .....	81	77	102	260
94	112	139	345	..... Phthisis.....	292	283	399	974
19	28	17	64	..... Constitutional Syphilis .....	133	116	152	401
3812	3133	4746	11721	.... Accidents, and all other Diseases.....	3967	3591	4988	12546
5629	4746	6924	17299	TOTAL	6541	5726	7656	19923

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN MARCH.				Royal Infirmary, Dr. REED.	Salford Meteorolog. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Inches.	Wet Days.									
Penketh .....	2.726	.....	15							
Eccles .....	2.292	.....	15							
Old Trafford ..	2.096	.....	14							
Salford .....	2.176	.....	14							
Wilmslow .....	.....	.....	..							
Royton .....	.....	.....	..							
Height of barometer cistern above sea level				130 ft.	108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.
Barometer.				INS.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level					29.956	29.961	29.956			
Highest.....					30.243	30.238	30.243			
Lowest .....					29.379	29.364	29.379			
Range .....					0.864	0.874	0.864			
Temperature.										
Adopted Mean .....					48.2	48.5	47.6			
Range for Week .....					23.5	29.0	29.7			
Daily Range.....					15.5	19.3	18.6			
Maximum in Shade .....					60.9	62.0	61.8			
Minimum in Shade .....					37.4	33.0	32.1			
Temperature of Dew Point .....					38.1	42.5	38.5			
Hygrometrical condition of the Atmosphere.										
Degree of Humidity (Saturation—1,000)					GRS. 0.684	GRS. 0.802	GRS. 0.718			
Prevailing Winds .....					N, NE	NE, SW	N, NE			
Rain .....					0.310	0.340	0.413			
Ozonometer.										
Moffat .....					0.28	0.43	3.42			
Schonbein .....					....	0.14	....			



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

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VOL. IX.] WEEK ENDING SATURDAY, MAY, 22, 1869. No. 460

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#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, May the 22nd, 1233 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1353, and in the corresponding week of last year it was 1482. The deaths in public practice during the week amounted to 69, being in the proportion of 1 death to every 17 cases.

The return continues to be satisfactory.

There is a decrease of 6 in the number of Small-Pox cases. This disease has been declining these last three weeks, the numbers for these weeks being 25, 10, and 4. Three of the cases occurred in Manchester and 1 in Salford.

There is this week a considerable diminution in the cases of Measles, the number having fallen from 27 to 17. Last week this disease prevailed principally in Chorlton and Salford, this week it was mostly observed in Salford.

Scarlatina continues to decrease in prevalency, the numbers for the last three weeks being 20, 15, and 7. Three of these 7 cases occurred in Manchester, 3 in Salford, and 1 in Chorlton. In the corresponding week of last year the number was 33.

The cases of Diarrhœa and Dysentery have fallen from 38 to 26. Twelve of these occurred in children.

The only return which shows an increase upon that of the preceding week is that of Fever, 30 cases being reported instead of 16; 11 were assigned to Continued Fever, 13 to Typhus, and 6 to Typhoid Fever.

The number of cases of Bronchitis and other acute chest diseases has fallen from 187 to 163.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 202 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Seventy-two deaths were caused by diseases of the lungs, 11 by Scarlatina, 7 by Measles, and 5 by Fever.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 50.0°; at the Salford Observatory it was 49.1°; at Eccles 48.3°; and at Old Trafford, 49.6°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....	Manchester Township 1,645 .....														
Population in 1861 .....	,, ,, 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	1	2	3	4	5	6	Total of Districts.	Workhouse.	ROYAL INFIRMARY.					CHILDREN	
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
Small-pox .....	..	..	1	..	..	..	1	2	..	..	..	..	..	..	..
Measles .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
Scarlet Fever .....	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	..	1	..	..	..	..	1	..	..	..	..	..	..	8	4
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	1	1	..	1	..	..	..	..	1	..
Continued Fever.....	..	..	..	..	2	1	3	1	..	..	1	..	..	..	..
Typhus .....	..	..	..	..	..	..	..	2	1	..	..	..	1	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Febricula.....	..	..	..	1	..	4	5	..	..	..	..	..	..	4	..
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	..	4	3	1	..	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	1	5	1	..	1	1	9	7	3	37	..	..	..	3	11
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	..	..	..	..	..	1	1	3	..	..	..	..	..	..	1
Phthisis .....	..	..	..	..	2	..	2	1	..	26	2	1	2	2	..
Constitutional Syphilis .....	..	..	..	..	..	..	..	6	1	4	..	..	1	..	..
All other Diseases .....	12	7	11	5	1	11	47	66	23	127	3	6	1	36	57
Accidents .....	1	..	..	..	..	4	5	10	17	130	..	..	3	..	1
TOTAL .....	14	13	13	6	6	23	75	98	50	327	7	7	8	58	77

Medical Officers to whom the Association are indebted for their services.

- |                      |                           |                           |                    |
|----------------------|---------------------------|---------------------------|--------------------|
| 1) Mr. R. M. MANN.   | (5) Mr. OCTAVIUS DEAN,    | (9) Mr. W. H. CARRUTHERS, | (13) Mr. H. RUNC   |
| 2) „ J. BROADBENT,   | (6) Dr. LEDWARD,          | (10) „ J. PORTER,         | (14) „ W. M. MA    |
| 3) „ EDWARD MEACHAM, | (7) Mr. J. WESTMORELAND,  | (11) „ C. CURRIE RITCHIE, | (15) „ J. OGDEN    |
| 4) „ JOHN WALSH.     | (8) „ J. P. SLEIGHTHOLME, | (12) „                    | (16) Dr. A. C. CLA |

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

CTIONS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 22nd day of May, 1869.

SALFORD.						HULME.			CHORLTON.		ARDWICK	PENDLETON & PENDLEBURY.						DEATHS.
..... 1,329 .....						..... 477 .....			... 646 ...		508.	..... 2650 .....				Area in Statute Acres.		
..... 70,967. ....						.. 68,209. ..			.. 44,850.		21739	..... 24,448 .....				Population in 1861.		
POOR LAW DISTRICT			PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS												
	Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.		
6	17	18	19	20	21	22	23	24	25	26	27	28	29					
..	..	..	1	..	..	..	..	..	..	..	..	..	..	4	3	Small-pox .....	..	
1	1	..	..	6	..	..	..	..	2	1	..	..	4	17	22	Measles .....	1	
..	..	..	..	3	..	..	..	..	..	1	..	..	..	7	33	Scarlet Fever.....	2	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..	
..	..	..	..	..	..	..	..	..	1	1	..	..	..	4	6	Whooping-cough ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..	
..	..	..	..	3	4	..	1	..	..	..	..	..	1	26	63	Diarrhoea .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	Dysentery .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..	
..	..	..	..	..	..	..	..	1	..	1	..	..	..	5	4	Erysipelas .....	1	
..	..	..	3	2	..	1	..	..	..	..	..	..	..	11	17	Continued Fever ....	1	
..	..	..	..	1	..	..	..	..	1	4	..	..	3	13	23	Typhus .....	2	
..	2	..	..	2	..	..	..	..	1	1	..	..	..	6	4	Enteric or Typhoid ..	2	
..	1	..	..	2	..	..	..	1	..	2	..	..	3	20	39	Febricula .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	1	12	9	Rheumatic Fever ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Puerperal Fever.....	..	
3	8	3	..	24	2	2	1	..	5	6	2	4	15	150	162	Bronchitis & Catarrh	8	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	Influenza .....	..	
..	..	..	..	3	1	1	..	..	..	1	..	..	2	13	15	Pleurisy & Pneumonia.	3	
1	..	1	..	6	1	..	1	..	..	2	..	1	..	51	66	Phthisis .....	12	
..	..	..	..	3	..	..	..	..	1	..	..	..	1	20	44	Constitutional Syphilis	1	
4	9	11	5	56	3	6	4	1	11	18	4	10	48	568	701	All other diseases ....	34	
1	2	..	..	82	..	..	1	..	2	22	..	27	3	306	265	Accidents .....	2	
0	23	15	9	193	11	10	8	3	24	60	6	42	81	1233	1482	TOTAL .....	69	

s indebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18) „ JAMES CRAN.  
(19) „ J. O. BRADBURY,  
(20) Dr. BRADDON,

(21) Mr. S. WOODCOCK,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON.  
(24) „ JOSEPH FOSTER,

(25) Mr. W. C. BARNISH,  
(26) „ J. V. L. WESTMACOTT,  
(27) „ R. P. O. GORMAN,  
(28) „ GEORGE CLEMENTS.

the report of the Association, and has as far as practicable, been taken into account in the conclusion drawn from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomson.	Greengate Dis., Mr. Bowler.	Regent-rd. Dis., Mr. Tople.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Udine Township, Mr. Sorby.	Ardwick Tashp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	1	1	..	1	..	..	1	..	..	..	3	1
Measles .....	..	..	..	..	1	4	..	1	..	..	..	7	3
Whooping-cough.....	..	..	..	..	..	..	..	..	..	..	..	1	6
Scarlatina .....	3	1	..	..	..	1	2	..	..	4	..	11	26
Diarrhoea .....	..	2	1	..	..	..	..	..	..	..	..	3	5
Fever .....	..	1	2	..	..	..	..	..	2	..	..	5	14
Diseases of the Lungs	11	15	9	6	3	7	2	1	4	14	..	72	67
Other causes.....	10	17	15	2	2	14	11	3	9	14	3	100	113
TOTAL NO. OF DEATHS.	24	33	28	8	7	26	15	5	16	32	3	202	255
TOTAL NO. OF BIRTHS.	19	26	8	8	8	21	13	13	27	51	17	216	358

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161630.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,315.

4 Weeks ending 27th Feb.	1 Weeks ending 27th March.	5 Weeks ending 1st May.	TOTAL.	DISEASES.	4 Weeks ending 27th Feb.	4 Weeks ending 27th March.	5 Weeks ending 1st May.	TOTAL
2	2	5	9	Small-pox .....	48	43	80	171
19	15	25	59	Measles .....	52	66	133	251
56	21	46	131	Scarlet Fever .....	93	68	85	246
2	5	1	8	Diphtheria .....	..	1	1	2
71	59	123	253	Whooping-cough .....	8	8	11	27
3	8	4	15	Croup .....	3	7	..	10
242	238	341	821	Diarrhoea .....	140	119	183	442
..	1	..	1	Dysentery .....	8	5	5	18
..	..	..	..	Malignant Cholera .....	..	..	..	..
15	21	32	68	Erysipelas .....	22	14	25	61
8	9	14	31	Continued Fever .....	88	59	59	206
..	..	..	..	Typhus .....	90	73	97	260
1	15	5	21	Enteric or Typhoid .....	29	33	36	98
104	87	93	289	Febricula .....	242	150	193	585
..	..	..	..	Ague .....	..	..	..	..
55	55	75	186	Rheumatic Fever .....	117	69	71	257
..	1	1	2	Puerperal Fever .....	..	3	..	3
1048	874	1199	3121	Bronchitis and Catarrh .....	1105	927	1027	3059
3	5	10	18	Influenza .....	23	14	9	46
45	48	43	136	Pleurisy and Pneumonia .....	81	77	102	260
94	112	139	345	Phthisis .....	292	283	399	974
19	28	17	64	Constitutional Syphilis .....	133	116	152	401
3842	3133	4746	11721	Accidents, and all other Diseases.....	3937	3591	4938	12546
5629	4746	6924	17299	TOTAL	6541	5726	7656	19923

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN MARCH.			Salford Meteorol.og. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Inches.	Wet Days.							
Penketh .....	2.726	15						
Eccles .....	2.292	15						
Old Trafford ..	2.096	14						
Salford .....	2.176	14						
Wilmslow .....	....	..						
Royton .....	....	..						
Height of barometer cistern above sea level.....			108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.
<b>Barometer.</b>			INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....			29.685	29.691	29.685	29.691		29.681
Highest.....			29.989	30.000	29.989	29.898		30.090
Lowest .....			29.319	29.327	29.319	29.210		29.402
Range .....			0.670	0.673	0.670	0.688		0.688
<b>Temperature.</b>							NO RETURN.	
Adopted Mean .....			49.1	49.6	48.3	47.2		51.0
Range for Week .....			17.9	22.7	21.8	19.5		23.0
Daily Range .....			12.3	13.7	13.7	11.5		16.0
Maximum in Shade .....			60.0	63.7	61.4	57.9		63.5
Minimum in Shade .....			42.1	41.0	39.6	38.4		35.5
Temperature of Dew Point .....			41.2	42.0	41.1	41.3	43.2	
<b>Hygrometrical condition of the Atmosphere.</b>			GRS.	GRS.	GRS.	GRS.		GRS.
Degree of Humidity (Saturation—1,000).....			0.749	0.749	0.766	0.809		0.752
Prevailing Winds .....			NE	NE,S	NE	E,SW		....
Rain .....			0.656	0.779	0.718	1.085		1.490
<b>Ozonometer.</b>								
Moffat .....			....	....	3.28	....		....
Schonbein .....			....	....	....	6.14		3.30



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, MAY, 29, 1869. No. 461

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, May the 29th, 1392 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1233, and in the corresponding week of last year it was 1413. The deaths in public practice during the week amounted to 62, being in the proportion of 1 death to every 22 cases.

The present return is unsatisfactory.

The number of Small-Pox cases has risen from 4 to 8. Four of the cases were observed in Manchester and 4 in Salford.

There is a slight increase in the cases of Measles, 20 being returned instead of 17. Five occurred in Manchester, 9 in Salford, 5 in Chorlton, and 1 in Ardwick.

There is a rise in the cases of Scarlatina, 12 being reported instead of 7. Four of these were observed in Manchester, 6 in Salford, 1 in Chorlton, and 1 in Ardwick. In the corresponding week of last year the number was 35.

Whooping-Cough is becoming prevalent; for many months the cases have averaged about 2 weekly. The numbers for the last three weeks were 3, 4, and 10.

The cases of Diarrhoea and Dysentery have risen from 26 to 35. In the corresponding week of last year the number was also 35.

The cases of Fever have risen from 30 to 45. Sixteen were assigned to Continued Fever, 18 to Typhus, and 11 to Typhoid Fever.

The cases of Bronchitis and other acute chest diseases have risen from 163 to 190.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

This week 203 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Fifty-seven deaths were caused by diseases of the lungs, 12 by Scarlatina, 8 by Measles, 7 by Fever, and 4 each by Diarrhoea and Whooping-Cough.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 51.7°; at the Salford Observatory it was 48.0°; at Eccles 47.8°; and at Old Trafford, 49.3°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



# MANCHESTER AND SALE

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS. New Cases of Disease coming under Treatment During the Year 1861.

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	" " 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	ROYAL INFIRMARY						CHILDREN		City Gaol. 15
								Workhouse. 7	In-patients. 8	Out-patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	
Small-pox .....	..	..	..	..	..	1	1	1	1	..	..	1	..	..	..	..
Measles .....	..	..	..	..	..	..	..	..	..	..	..	..	..	3	2	..
Scarlet Fever .....	..	1	..	..	..	..	1	1	..	..	..	..	..	1	1	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	1	..	..	2	3	..	..	..	..	..	..	4	..	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	..	..	..	..	..	1	1	..	..	3	..	..	..	15	2	2
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	1	..	..	..	..	1	2	1	..	..	..	..	..	1	..	..
Continued Fever.....	5	..	2	a	..	1	9	1	..	..	..	..	..	..	..	..
Typhus .....	..	..	..	..	a	2	3	7	1	..	..	..	a	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	1	..	..	..	1	..	..	2	..
Febricula.....	1	..	..	1	..	4	6	..	..	..	1	..	1	5	1	2
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	..	1	3	2	2	1	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	4	1	2	1	2	3	13	12	2	32	4	1	3	6	7	3
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	..	..	..	..	..	1	1	..	..	5	..	..	2	1	1	..
Phthisis .....	1	..	..	..	1	..	2	4	2	19	3	1	4	2	2	1
Constitutional Syphilis .....	..	..	..	..	..	..	..	12	..	6	..	..	1	..	1	3
All other Diseases .....	11	4	15	6	2	15	53	77	18	96	3	6	3	76	72	4
Accidents .....	1	1	..	..	..	2	4	7	13	120	..	..	2	..	..	..
TOTAL .....	24	7	20	9	6	33	99	124	38	284	13	12	18	114	91	15

a Removed to Workhouse.

### Medical Officers to whom the Association

1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9) Mr. W. H. CARRUTHERS,	(13) Mr. H. RUNCORN.
2) „ J. BROADBENT,	(6) Dr. LEDWARD,	(10) „ J. PORTER,	(14) „ W. M. MACCAI
3) „ EDWARD MEACHAM,	(7) Mr. J. WESTMORELAND,	(11) „ C. CURRIE RITCHIE,	(15) „ J. OGDEN FLET
4) „ JOHN WALSH.	(8) „ J. P. SLEIGHTHOLME,	(12)	(16) Dr. A. C. CLARKE,

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

IONS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 29th day of May, 1869.

SALFORD.					HULME.			CHORLTON.		ARDWICK.		PENDLETON & PENDLEBURY.			Area in Statute Acres. Population in 1861.		DEATHS.		
..... 1,329 .....					..... 477 .....			.. 646...		508.		..... 2650.....			..... 24,448 .....				
..... 70,967. ....					.. 68,209. ..			.. 44,850.		21739									
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.		Poor Law District.		Ardwick & Ancoats Dispensary.		Chorlton Union Workhouse.		Total.		Corresponding Week last Year.	
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.				
17	18	19	20	21	22	23	24	25	26	27	28	29							
..	..	3	..	..	..	..	..	..	..	..	..	..	8	..	Small-pox .....	1			
..	1	..	8	..	..	..	..	2	3	..	1	..	20	18	Measles .....	1			
..	1	..	5	..	..	..	..	..	1	1	..	..	12	35	Scarlet Fever.....	2			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..			
..	..	..	2	..	..	..	..	..	1	..	..	..	10	7	Whooping-cough ....	..			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..			
..	..	..	4	6	2	..	..	..	..	..	..	..	35	34	Diarrhoea .....	1			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Dysentery .....	..			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..			
..	..	..	..	1	..	..	1	..	1	..	1	..	8	1	Erysipelas .....	2			
..	..	1	5	..	..	..	..	..	..	..	..	..	16	14	Continued Fever ....	1			
..	..	..	2	..	..	..	..	..	..	..	..	3	18	31	Typhus .....	2			
..	..	..	1	..	..	..	..	3	3	..	..	..	11	2	Enteric or Typhoid ..	..			
..	..	..	4	..	1	3	3	..	1	..	..	3	32	37	Febricula .....	..			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..			
..	1	..	..	..	..	1	..	..	..	1	..	..	12	32	Rheumatic Fever ....	..			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	Puerperal Fever.....	..			
6	1	..	34	4	2	..	1	6	6	1	5	16	172	177	Bronchitis & Catarrh	10			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	Influenza .....	..			
..	..	..	3	..	..	1	..	..	1	..	..	1	18	15	Pleurisy & Pneumonia.	..			
..	..	..	10	..	..	..	..	..	..	..	3	3	58	62	Phthisis .....	12			
..	..	..	4	2	..	..	..	2	1	..	1	4	37	44	Constitutional Syphilis	..			
12	17	..	89	2	3	4	7	20	23	7	15	52	672	658	All other diseases ....	29			
2	..	..	63	..	2	..	1	1	15	1	19	1	253	241	Accidents .....	1			
20	21	4	234	15	10	9	13	34	56	11	45	83	1392	1113	TOTAL .....	62			

debted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18) „ JAMES CRAN.  
(19) „ J. O. BRADBURY,  
(20) Dr. BRADDON,

(21) Mr. S. WOODCOCK,  
(22) Dr. ALEX. WILSON,  
(23) Mr. H. M. WILLIAMSON.  
(24) „ JOSEPH FOSTER,

(25) Mr. W. C. BARNISH,  
(26) „ J. V. L. WESTMACOTT,  
(27) „ R. P. O. GORMAN,  
(28) „ GEORGE CLEMENTS.

report of the Association, and has as far as practicable, been taken into account in the conclusion from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomson.	Greengate Dis., Mr. Bowci.	Regent-rd. Dis., Mr. Tiddle.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnsbp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	1	..	1	..	2	2	..	2	1	..	..	1	1
Measles .....	1	..	..	..	..	..	..	..	..	2	1	8	13
Whooping-cough.....	2	3	1	..	..	..	..	2	1	1	..	4	5
Scarlatina .....	2	..	2	..	..	..	..	..	1	..	..	12	22
Diarrhoea .....	3	..	..	..	..	..	..	..	1	..	..	4	3
Fever .....	..	1	2	..	1	..	1	..	1	..	1	7	10
Diseases of the Lungs	6	5	12	5	4	5	6	1	1	5	1	57	59
Other causes.....	9	14	23	3	8	9	11	9	7	9	3	119	106
TOTAL NO. OF DEATHS.	21	23	46	8	15	16	19	14	18	17	6	203	219
TOTAL NO. OF BIRTHS.	43	53	25	14	29	42	22	35	40	69	24	399	334

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161639.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 27th Feb.	1 Weeks ending 27th March.	5 Weeks ending 1st May.	TOTAL.	DISEASES.	4 Weeks ending 27th Feb.	1 Weeks ending 27th March.	5 Weeks ending 1st May.	TOTAL
2	2	5	9	Small-pox .....	48	43	80	171
19	15	25	59	Measles .....	52	66	133	251
56	29	46	131	Scarlet Fever.....	93	68	85	246
2	5	1	8	Diphtheria .....	..	1	1	2
71	59	123	253	Whooping-cough .....	8	8	11	27
3	8	4	15	Croup .....	3	7	..	10
242	238	341	821	Diarrhoea .....	140	119	183	442
..	1	..	1	Dysentery .....	8	5	5	18
..	..	..	..	Malignant Cholera.....	..	..	..	..
15	21	32	68	Erysipelas .....	22	14	25	61
8	9	14	31	Continued Fever .....	88	59	59	206
..	..	..	..	Typhus .....	90	73	97	260
1	15	5	21	Enteric or Typhoid .....	29	33	36	98
104	87	93	289	Febricula .....	242	150	193	585
..	..	..	..	Ague .....	..	..	..	..
55	56	75	186	Rheumatic Fever.....	117	69	71	257
..	1	1	2	Puerperal Fever .....	..	3	..	3
1048	874	1199	3121	Bronchitis and Catarrh .....	1105	927	1027	3059
3	5	10	18	Influenza .....	23	14	9	46
45	48	43	136	Pleurisy and Pneumonia .....	81	77	102	260
94	112	139	345	Phthisis .....	292	283	399	974
19	28	17	64	Constitutional Syphilis .....	133	116	152	401
3842	3133	4746	11721	Accidents, and all other Diseases.....	3957	3591	4938	12546
5629	4746	6924	17299	TOTAL	6541	5726	7636	19923

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN MARCH.		Salford Meteorolgl. Observatory, T. Mackereth, Esq.		Old Trafford, G. V. VERNON, Esq.		Eccles, T. MACKERETH Esq.		Wilmslow, J. THOMPSON, Esq.		Royton, J. HEAR, Esq.		Penketh, Warrington L. W. Reynolds Esq.	
Inches.	Wet Days.												
Penketh .....	2.726	15											
Eccles .....	2.292	15											
Old Trafford ..	2.096	14											
Salford .....	2.176	14											
Wilmslow .....	..	..											
Royton .....	..	..											
Height of barometer cistern above sea level.....		108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.						
Barometer.		INS.	INS.	INS.	INS.	INS.	INS.						
Mean @ 32° F., and reduced to sea level.....		29.949	29.957	29.949	29.949	29.949	29.947						
Highest.....		30.125	30.130	30.125	30.125	30.125	30.230						
Lowest .....		29.565	29.588	29.565	29.588	29.565	29.652						
Range .....		0.560	0.542	0.560	0.542	0.560	0.578						
Temperature.													
Adopted Mean .....		48.0	49.3	47.8			49.8						
Range for Week .....		18.3	22.3	23.0			27.8						
Daily Range .....		10.3	13.6	13.4			16.3						
Maximum in Shade .....		59.3	64.0	61.7			62.0						
Minimum in Shade .....		41.0	41.7	34.7			34.2						
Temperature of Dew Point .....		39.3	40.6	39.1			42.8						
Hygrometrical condition of the Atmosphere.		GRS.	GRS.	GRS.			GRS.						
Degree of Humidity (Saturation—1,000).....		0.24	0.721	0.732			0.770						
Prevailing Winds .....		NE	NE	ESE			E, NE						
Rain .....		0.146	0.122	0.171			0.778						
Ozonometer.													
Moffat .....		0.42	0.86	7.71			2.60						
Schonbein .....		..	..	..			..						

May, 29, 1869.

THOMAS MACKERETH, Esq., F.R.A.S.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, JUNE, 5, 1869. No. 462

**DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, June the 5th, 1523 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1392, and in the corresponding week of last year it was 1268. The deaths in public practice during the week amounted to 60, being in the proportion of 1 death to every 25 cases.

There is this week no improvement in the Small-Pox return; 9 cases were returned, being 1 more than in the preceding week. These cases were confined to the Manchester and Salford Townships, 5 were observed in the former and 4 in the latter.

There is a considerable decline in the cases of Measles, 9 being returned instead of 20. Three occurred in Manchester, 4 in Salford, and 2 in Chorlton.

Scarlatina is again on the increase, the numbers for the three last weeks being 7, 12, and 19 respectively. Seven of these 19 cases occurred in Manchester, 7 in Salford, 1 in Hulme, and 4 in Chorlton. Three of these cases only were treated in hospitals.

This week the cases of Whooping-Cough have decreased slightly, 8 being returned instead of 10. Five of these were observed in Manchester, 1 in Hulme, and 2 in Chorlton.

There is but a slight increase in the cases of Diarrhœa and Dysentery; 41 were returned, being 6 more than in the preceding week. The number is higher than in the corresponding week of last year, when it was 33.

There is a decrease in the Fever return of 11 cases, 34 were observed during the week. Fifteen were assigned to Continued Fever, 14 to Typhus, and 5 to Typhoid Fever. In the corresponding week of last year the number of Fever cases was 42.

One hundred and ninety-three cases of Bronchitis and other acute chest diseases were observed during the week, being 3 more than the number reported in the preceding return.

**DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

This week 202 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. In the two preceding weeks the numbers were 202 and 203. The deaths from zymotic diseases were numerous this week.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 53.3°; at the Salford Observatory it was 52.5°; at Eccles 52.7°; and at Old Trafford, it was 53.9°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.																
Area in Statute Acres.....	Manchester Township 1,645 .....															
Population in 1861.....	,, ,, 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	Workhouse. 7	ROYAL INFIRMARY.					CHILDREN		
	8	9	10	11	12	13	14	15	In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	City 15
Small-pox .....	2	..	..	..	..	1	3	1	..	..	..	1	..	..	..	..
Measles .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..
Scarlet Fever .....	1	1	..	..	..	..	2	1	2	..	..	..	..	2	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	4	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	..	..	..	..	..	..	1	..	2	1	..	..	14	3	..
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Continued Fever.....	2	..	3	..	a2	..	7	1	..	..	..	..	..	..	..	..
Typhus .....	..	..	..	..	..	..	..	7	1	..	..	..	1	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
Febricula.....	2	..	..	2	..	4	8	..	..	..	..	..	2	18	1	..
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	2	..	2	..	2	10	2	..	5	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	3	7	2	..	..	4	16	7	2	31	4	..	2	1	8	..
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	..	..	..	..	..	..	..	4	1	2	..	..	..	..	..	..
Phthisis .....	..	..	..	..	1	..	1	5	1	23	1	..	4	2	1	..
Constitutional Syphilis .....	..	..	..	..	..	1	1	10	..	6	..	..	..	..	..	..
All other Diseases .....	15	6	7	8	4	12	52	66	25	158	4	3	6	66	99	..
Accidents .....	2	..	1	..	..	2	5	5	10	122	..	..	3	..	..	..
TOTAL .....	27	14	13	10	9	24	97	109	44	354	12	4	24	104	119	20

a Removed to Workhouse.

b Removed to Royal Infirmary.

Medical Officers to whom the Association

(1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9) Mr. W. H. CARRUTHERS,	(13) Mr. H. RUNCOR
(2) „ J. BROADBENT,	(6) Dr. LEDWARD,	(10) „ J. PORTER,	(14) „ W. M. MACC
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# SANITARY ASSOCIATION.

## DISTRICTS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 5th day of June, 1869.

SALFORD.					HULME.			CHORLTON.		ARDWICK	PENDLETON & PENDLEBURY.						DEATHS.	
..... 1,329 .....					..... 477 .....			.. 646 ..		508.	..... 2650 .....				Area in Statute Acres.			
..... 70,967. ....					.. 68,209. ..			.. 44,850 ..		21739	..... 24,448 .....				Population in 1861.			
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS									Total.	Corresponding Week last Year.	DISEASES.		
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.						
17	18	19	20	21	22	23	24	25	26	27	28	29						
..	..	3	..	..	..	..	..	..	..	..	..	..	9	..	Small-pox .....	..		
..	..	..	4	..	..	..	..	..	1	..	..	1	9	11	Measles .....	1		
..	..	..	7	..	..	..	1	..	4	..	..	..	19	27	Scarlet Fever.....	1		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..		
..	..	..	..	..	..	1	..	..	2	..	..	..	8	5	Whooping-cough ....	..		
..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	Croup .....	..		
..	1	..	6	4	..	..	..	..	..	..	1	3	40	33	Diarrhoea .....	..		
..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	Dysentery .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..		
1	..	..	..	1	1	..	..	..	..	..	..	..	4	6	Erysipelas .....	..		
..	..	3	4	..	..	..	..	..	..	..	..	..	15	20	Continued Fever ....	1		
..	1	..	1	..	..	..	..	..	61	..	..	1	14	20	Typhus .....	2		
..	..	..	3	..	..	..	..	1	..	..	..	..	5	2	Enteric or Typhoid ..	1		
..	..	..	6	1	..	..	2	2	..	..	..	..	43	21	Febricula .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..		
..	1	..	..	..	..	2	..	..	..	..	1	1	26	11	Rheumatic Fever ....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....	..		
9	4	..	32	3	3	2	3	3	5	2	4	20	174	133	Bronchitis & Catarrh	7		
..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	Influenza .....	..		
1	..	..	2	1	1	..	..	..	..	..	..	4	18	23	Pleurisy & Pneumonia.	2		
..	1	..	11	1	..	1	..	1	4	..	2	3	63	44	Phthisis .....	9		
2	..	..	7	2	..	..	2	..	..	..	1	2	37	33	Constitutional Syphilis	..		
14	13	4	80	3	8	3	9	12	27	9	18	55	751	543	All other diseases ....	35		
1	..	..	74	..	2	..	1	..	19	..	37	5	285	334	Accidents .....	1		
28	21	10	238	16	15	9	18	20	63	11	64	95	1523	1268	TOTAL .....	60		

indebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
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 (27) „ R. P. O. GORMAN,  
 (28) „ GEORGE CLEMENTS.

the report of the Association, and has as far as practicable, been taken into account in the conclusion drawn from the weekly returns.



Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomson.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	1	1	1	1	1	2	4	3	1	2	1	3	9
Measles .....	1	1	1	1	1	2	4	3	1	2	1	16	2
Whooping-cough .....	1	1	1	1	1	2	4	3	1	2	1	2	25
Scarlatina .....	1	1	1	1	1	2	4	3	1	2	1	8	3
Diarrhoea .....	1	1	1	1	1	2	4	3	1	2	1	6	14
Fever .....	2	3	4	2	6	8	4	1	6	10	1	15	69
Diseases of the Lungs .....	9	3	7	2	6	8	4	1	6	10	1	57	91
Other causes .....	6	11	9	..	8	13	14	3	9	16	6	95	213
TOTAL NO. OF DEATHS.	19	20	23	4	16	29	24	11	16	31	9	202	274
TOTAL NO. OF BIRTHS.	42	49	16	20	12	29	30	21	34	59	21	343	274

### Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,315.

4 Weeks ending 27th Feb.	4 Weeks ending 27th March.	5 Weeks ending 1st May.	TOTAL.	DISEASES.	4 Weeks ending 27th Feb.	4 Weeks ending 27th March.	5 Weeks ending 1st May.	TOTAL
2	2	5	9	Small-pox .....	48	43	80	171
19	15	25	59	Measles .....	52	66	133	251
56	29	46	131	Scarlet Fever .....	93	68	85	246
2	5	1	8	Diphtheria .....	..	1	1	2
71	59	123	253	Whooping-cough .....	8	8	11	27
3	8	4	15	Croup .....	3	7	..	10
242	238	341	821	Diarrhoea .....	140	119	183	442
..	1	..	1	Dysentery .....	8	5	5	18
..	..	..	..	Malignant Cholera .....	..	..	..	..
15	21	32	68	Erysipelas .....	22	14	25	61
8	9	14	31	Continued Fever .....	88	59	59	206
..	..	..	..	Typhus .....	90	73	97	260
1	15	5	21	Enteric or Typhoid .....	29	33	36	98
104	87	98	289	Febricula .....	242	150	193	585
55	56	75	186	Ague .....	..	..	..	..
..	1	1	2	Rheumatic Fever .....	117	69	71	257
1048	874	1199	3121	Puerperal Fever .....	..	3	..	3
3	5	10	18	Bronchitis and Catarrh .....	1105	927	1027	3059
45	48	43	36	Influenza .....	23	14	9	46
94	112	139	45	Pleurisy and Pneumonia .....	81	77	102	260
19	28	17	64	Phthisis .....	292	283	399	974
3842	3133	4746	11721	Constitutional Syphilis .....	133	116	152	401
5629	4746	6924	17299	Accidents, and all other Diseases .....	3967	3591	4988	12546
				TOTAL	6541	5726	7656	19923

### METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN MARCH.				Salford Meteorolog. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAR, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Inches.	Wet Days.								
Penketh .....	2.726	.....	15						
Eccles .....	2.292	.....	15						
Old Trafford ..	2.096	.....	14						
Salford .....	2.176	.....	14						
Wilmslow ....	....	.....	..						
Royton .....	....	.....	..						
Height of barometer cistern above sea level .....				108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.
<b>Barometer.</b>				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level .....				30.085	30.084	30.085	30.116		30.077
Highest .....				30.155	30.168	30.155	30.070		30.256
Lowest .....				29.777	29.772	29.777	29.678		29.860
Range .....				0.378	0.396	0.378	0.392		0.396
<b>Temperature.</b>									
Adopted Mean .....				52.5	53.9	52.7	51.8		56.2
Range for Week .....				24.8	32.8	53.3	27.5		35.1
Daily Range .....				12.7	17.8	16.9	13.8		18.3
Maximum in Shade .....				65.9	63.8	68.3	65.5		70.3
Minimum in Shade .....				41.0	36.0	35.0	38.0		35.2
Temperature of Dew Point .....				43.7	46.4	46.3	46.4		48.0
<b>Hygrometrical condition of the Atmosphere.</b>				GRS.	GRS.	GRS.	GRS.		GRS.
Degree of Humidity (Saturation—1,000) .....				0.721	0.701	0.795	0.821		0.740
Prevailing Winds .....				SW	S,SW	W,SW	SW		NW,W
Rain .....				0.174	0.180	0.222	0.236		0.203
<b>Ozonometer.</b>									
Moffat .....				....	0.43	2.28	3.71		5.80
Schonbein .....				....	....	....	....		....



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, JUNE 12, 1869.

No. 463

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, June the 12th 1537 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1523, and in the corresponding week of last year it was 1447. The deaths in public practice during the week amounted to 52, being in the proportion of 1 death to every 29 cases.

The return of Small-Pox cases is the same this week as it was in the one preceding, 9 being reported.

In the last return it was reported that the cases of Measles had fallen from 20 to 9 this week they have risen to 31; this increase, together with the large number of deaths from this disease during the last fortnight, probably indicate an approaching epidemic of Measles.

It is satisfactory to find that Scarlatina is decreasing in prevalency. Both the disease and death returns indicate the decline of this disease. Last week 19 cases were reported, this week they have fallen to 9. Two of these occurred in Manchester, 5 in Salford, and 2 in Chorlton.

The cases of Whooping-Cough have risen from 8 to 10. For the week before last the number was also 10. In the corresponding week of last year it was 5.

The cases of Diarrhoea and Dysentery have fallen from 41 to 33. In the corresponding week of last year the number was 64.

The Fever return is very satisfactory, 19 cases only having occurred in the public practice of the week. Four were assigned to Continued Fever, 13 to Typhus, and 2 to Typhoid Fever. Six cases were treated in the Workhouses and the remainder at their homes.

The cases of Bronchitis and other acute chest diseases have risen from 193 to 209.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

This week 231 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Seventeen deaths were caused by Measles, 6 by Fever, 4 by Diarrhoea, and 3 each by Small-Pox and Scarlatina.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 59.0°; at the Salford Observatory it was 55.0°; at Eccles 54.7°; and at Old Trafford, it was 57.1°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



*New Cases of Disease coming under Treatment D*

*a* Removed to Hospital.

(1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9)	(13) Mr. H. RUNCORN,
(2) „ J. BROADBENT,	(6) Dr. LEDWARD,	(10) }	(14) „ W. M. MACCARTHY,
(3) „ EDWARD MEACHAM,	(7) Mr. J. WESTMORELAND,	(11) }	(15) „ J. OGDEN FLEMING,
(4) „ JOHN WALSH.	(8) „ J. P. SLEIGHTHOLME,	(12) }	(16) Dr. A. C. CLARK.

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

## REPORTS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 12th day of June, 1869.

SALFORD.					HULME.			CHORLTON.		ARDWICK	PENDLETON & PENDLEBURY.			Area in Statute Acres. Population in 1861.		DEATHS.
..... 1,329 .....					..... 477 .....			... 646 ...		508.	..... 2650 .....					
..... 70,967. ....					... 68,209. ...			.. 44,850..		21739	..... 24,448 .....					
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.		Poor Law District.	Ardwick & Ancoats Dispensary.		Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.		
17	18	19	20	21	22	23	24	25	26	27	28	29				
..	..	2	2	..	..	..	..	..	..	..	1	1	9	..	..	Small-pox .....
1	..	..	4	..	1	..	..	1	3	..	1	1	31	18	..	Measles .....
..	..	..	5	..	..	..	..	..	1	..	..	1	9	36	..	Scarlet Fever. ....
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....
..	..	..	..	..	..	..	..	..	..	..	..	..	10	5	..	Whooping-cough ....
..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	Croup .....
..	1	..	7	3	..	..	1	..	1	..	..	..	31	62	..	Diarrhœa .....
..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	..	Dysentery .....
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	..	Erysipelas .....
..	..	1	2	..	..	..	..	..	..	..	..	..	4	20	..	Continued Fever ....
..	..	..	1	..	..	..	..	2	..	..	..	2	13	23	..	Typhus .....
..	..	..	1	..	..	..	..	..	1	..	..	..	2	3	..	Enteric or Typhoid ..
..	..	..	8	..	1	..	2	1	6	..	..	1	53	28	..	Febricula .....
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	Ague .....
..	..	..	..	..	..	2	..	1	..	..	..	..	20	9	..	Rheumatic Fever ....
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....
8	5	..	41	2	1	5	..	10	9	1	4	15	186	145	..	Bronchitis & Catarrh
..	..	..	..	..	..	1	..	..	..	..	..	..	1	6	..	Influenza .....
1	..	..	4	1	..	..	..	..	3	..	..	1	22	21	..	Pleurisy & Pneumonia.
..	2	..	13	1	1	..	..	1	1	..	1	7	70	62	..	Phthisis .....
1	..	..	7	1	..	..	..	2	1	..	1	3	36	59	..	Constitutional Syphilis
11	5	1	107	2	5	2	7	14	25	9	18	60	781	706	..	All other diseases ....
2	..	..	55	..	..	1	1	2	16	..	34	..	256	234	..	Accidents .....
24	13	4	258	10	9	11	11	34	67	10	60	92	1537	1447	..	TOTAL .....

indebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
 (18) „ JAMES CRAN.  
 (19)  
 (20) Mr. A. VEITCH  
 (21) Dr. BRADDON,

(22) Mr. S. WOODCOCK,  
 (23) Dr. ALEX. WILSON,  
 (24) Mr. H. M. WILLIAMSON.  
 (25) „ JOSEPH FOSTER,

(26) Mr. W. C. BARNISH,  
 (27) „ J. V. L. WESTMACOTT,  
 (28) „ R. P. O. GORMAN,  
 (29) „ GEORGE CLEMENTS.

The report of the Association, and has, as far as practicable, been taken into account in the conclusion drawn from the weekly returns.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Anecats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bowel.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	1	..	..	..	..	..	..	..	1	1	3	..
Measles .....	1	4	..	..	3	2	3	1	..	2	1	17	7
Whooping-cough.....	..	..	..	..	1	..	..	..	..	1	..	2	5
Scarlatina .....	..	1	..	..	..	1	1	..	..	..	..	3	22
Diarrhoea .....	..	..	..	..	..	..	1	1	1	1	..	4	7
Fever .....	2	..	..	..	..	..	1	..	..	..	3	6	8
Diseases of the Lungs	8	7	10	2	5	3	5	2	8	15	5	70	72
Other causes.....	15	10	13	10	5	8	17	7	8	26	7	126	112
TOTAL NO. OF DEATHS.	26	23	23	12	14	14	23	11	17	46	17	231	233
TOTAL NO. OF BIRTHS.	37	41	13	13	10	23	29	12	34	60	23	295	436

## Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
 Medical Officer of Health, John Whitmore, M.D.  
 Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
 MANCHESTER and SALFORD.  
 Population in 1861, 390,815.

4 Weeks ending 27th March.	5 Weeks ending 1st May.	4 Weeks ending 29th May.	TOTAL.	DISEASES.	4 Weeks ending 27th March.	5 Weeks en ding 1st May.	4 Weeks ending 29th May.	TOTAL
2	5	10	17	..... Small-pox .....	43	80	47	170
15	25	32	72	..... Measles .....	66	133	82	281
29	46	33	108	..... Scarlet Fever.....	68	85	54	207
5	1	5	11	..... Diphtheria .....	1	1	..	2
59	123	70	252	..... Whooping-cough .....	8	11	19	38
8	4	2	14	..... Croup .....	7	..	1	8
238	341	206	785	..... Diarrhoea .....	119	183	132	434
1	..	..	1	..... Dysentery .....	5	5	1	11
..	..	..	..	..... Malignant Cholera.....	..	..	..	..
21	32	29	82	..... Erysipelas .....	14	25	22	61
9	14	11	34	..... Continued Fever .....	59	59	47	165
..	..	..	..	..... Typhus .....	73	97	51	221
15	5	1	21	..... Enteric or Typhoid .....	33	36	29	98
87	93	40	225	..... Febricula .....	150	193	114	457
..	..	1	1	..... Ague .....	..	..	..	..
56	75	47	178	..... Rheumatic Fever.....	69	71	65	205
1	1	..	2	..... Puerperal Fever.....	3	..	..	3
874	1199	613	2686	..... Bronchitis and Catarrh .....	927	1027	669	2623
5	10	6	21	..... Influenza.....	14	9	1	24
48	43	34	125	..... Pleurisy and Pneumonia .....	77	102	72	251
112	139	84	335	..... Phthisis .....	283	399	227	909
23	17	16	61	..... Constitutional Syphilis .....	116	152	116	384
3133	4746	3322	11201	....Accidents, and all other Diseases.....	3591	4988	3579	12158
4746	6924	4562	16232	TOTAL	5726	7656	5328	18710

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN MARCH.				Salford Meteorolog. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq	Eccles, T. MACKERETH Esq	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L. W. Reynolds Esq
Inches.	Wet Days.								
Penketh .....	2.726	.....	15						
Eccles .....	2.292	.....	15						
Old Trafford ..	2.096	.....	14						
Salford .....	2.176	.....	14						
Wilmslow ....	.....	.....	..						
Royton .....	.....	.....	..						
Height of barometer cistern above sea level.....	108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.			
<b>Barometer.</b>	INS.	INS.	INS.	INS.	INS.	INS.			
Mean @ 32° F., and reduced to sea level.....	30.111	30.119	30.111	30.125					
Highest.....	30.219	30.224	30.219	30.090					
Lowest .....	29.603	29.574	29.603	29.492					
Range .....	0.616	0.650	0.616	0.598					
<b>Temperature.</b>									
Adopted Mean .....	55.0	57.1	54.7	53.5					
Range for Week .....	37.7	40.9	40.8	39.4					
Daily Range .....	17.9	23.5	22.3	19.5					
Maximum in Shade .....	80.7	82.2	79.8	77.1					
Minimum in Shade .....	43.0	41.3	39.0	37.7					
Temperature of Dew Point .....	45.2	47.1	45.5	45.6					
<b>Hygrometrical condition of the Atmosphere.</b>	GRS.	GRS.	GRS.	GRS.					
Degree of Humidity (Saturation—1,000).....	0.705	0.691	0.705	0.745					
Prevailing Winds .....	W,NW	S	W,NW	W					
Rain .....	.....	.....	.....	0.009					
<b>Ozonometer.</b>									
Moffat .....	.....	.....	4.14	.....					
Schonbein .....	.....	.....	.....	3.86					



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, JUNE 19, 1869.

No. 464

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, June the 19th, 1319 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1537, and in the corresponding week of last year it was 1603. The deaths in public practice during the week amounted to 63, being in the proportion of 1 death to every 20 cases.

There is this week a considerable increase in the cases of Small-Pox, the number having risen from 9 to 14. This disease was more prevalent in Manchester than in any of the other districts, 10 of the cases having occurred there. Not a single case was observed in the public practice of Salford during the week.

The number of Measles cases has fallen from 31 to 20. Twelve of the 20 cases occurred in Manchester, 5 in Salford, and 1 each in Chorlton, Ardwick, and Hulme.

The cases of Scarlatina have risen in number from 9 to 16. Last week 2 cases occurred in Manchester, in the week under notice there were 12.

There is a slight improvement in the return of Whooping-Cough, the cases having fallen from 10 to 6; 3 of these occurred in Manchester and 3 in Chorlton.

The cases of Fever have risen from 19 to 33. Fifteen were assigned to Continued Fever, 17 to Typhus, and 1 to Typhoid Fever.

There is a considerable decrease in the number of cases of Bronchitis and other acute chest diseases, 157 being returned instead of 209.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

This week 216 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Sixty-eight deaths were caused by Diseases of the Lungs, 16 by Measles, and 6 by Scarlatina.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 51.3°; at the Salford Observatory it was 50.2°; at Eccles 49.8°; and at Old Trafford, 50.9°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



# MANCHESTER AND SALE

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC I  
*New Cases of Disease coming under Treatment I*

MANCHESTER.																
Area in Statute Acres.....		Manchester Township 1,645 .....														
Population in 1861.....		,, ,, 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	Workhouse. 8	In- patients. 9	Out- patients. 10	District I. 11	District II. 12	District III. 13	St. Mary's Hospital. 14	Clinical Hospital. 15	Children 16
Small-pox .....	..	..	..	..	1	..	1	2	5	..	..	b2	..	..	..	..
Measles .....	2	..	..	..	..	5	7	..	..	..	..	..	..	3	2	..
Scarlet Fever .....	..	..	1	a1	1	2	5	..	1	..	..	..	..	5	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	1	..	..	..	..	2	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	1	..	..	..	2	3	2	..	2	..	..	..	7	7	..
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	..	..	3	1	..	..	..	..	..	..	..
Continued Fever.....	5	a2	1	..	a1	..	9	..	..	..	..	..	..	1	..	..
Typhus .....	..	..	..	..	a1	2	3	8	1	..	..	a2	..	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Febricula.....	1	..	..	1	..	..	2	4	..	..	1	1	2	5	1	..
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	1	1	15	..	..	1	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
Bronchitis and Catarrh .....	1	4	1	2	2	3	13	3	1	26	1	3	2	5	5	..
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia.....	..	1	..	..	..	..	1	4	..	2	..	..	..	..	3	..
Phthisis .....	..	2	..	1	2	1	6	6	..	27	2	4	4	4	..	..
Constitutional Syphilis .....	..	..	..	2	..	..	2	7	..	4	..	..	..	..	..	..
All other Diseases .....	13	5	10	3	2	18	51	60	22	96	9	1	3	53	69	..
Accidents .....	1	..	..	..	..	1	2	3	16	102	..	..	3	..	..	..
TOTAL .....	23	15	13	10	10	34	105	103	49	275	13	13	16	84	89	1

a Removed to Workhouse.
b Removed to Small-pox Ward.

*a* Removed to Workhouse.

*b* Removed to Small-pox Ward.

*Medical Officers to whom the Association*

(1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9) {	(13) Mr. H. RUNCOFF
(2) " J. BROADBENT,	(6) Dr. LEDWARD,	(10) { Mr. W. H. CARRUTHERS,	(14) " W. M. MACC
(3) " EDWARD MEACHAM,	(7) Mr. J. WESTMORELAND,	(11) { " J. PORTER,	(15) " J. OGDEN FL
(4) " JOHN WALSH.	(8) " J. P. SLEIGHTHOLME,	(12) { " C. CURRIE RITCHIE,	(16) Dr. A. C. CLARK

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

## REPORTS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 19th day of June, 1869.

SALFORD.					HULME.			CHORLTON.		ARDWICK.		PENDLETON & PENDLEBURY.			Area in Statute Acres. Population in 1861.		DEATHS.		
..... 1,329 .....					..... 477 .....			.. 646...		508.		..... 2650.....			.....24,448 .....				
..... 70,967. ....					.. 68,209. ..			..44,850.		21739.									
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.		Poor Law District.		Ardwick & Ancoats Dispensary.		Chorlton Union Workhouse.		Total.		Corresponding Week last Year.	
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.				
17	18	19	20	21	22	23	24	25	26	27	28	29							
..	..	..	..	..	21	1	..	..	..	1	..	1	14	2	Small-pox .....				
2	..	..	3	..	..	..	1	..	..	..	1	1	20	21	Measles .....				
..	..	..	2	..	1	..	..	..	..	..	2	..	16	30	Scarlet Fever.....				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....				
..	..	..	..	..	..	..	..	..	3	..	..	..	6	6	Whooping-cough ....				
..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	Croup .....				
1	..	..	3	5	1	..	..	..	..	..	..	..	36	60	Diarrhoea .....				
..	..	..	..	..	..	..	..	..	..	..	..	..	2	7	Dysentery .....				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..				
..	..	..	..	..	..	..	..	..	..	..	..	1	5	3	Erysipelas .....				
..	..	2	2	..	..	..	..	..	..	..	..	..	15	28	Continued Fever ....				
..	1	..	..	..	..	..	..	..	..	..	..	2	17	28	Typhus .....				
..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	Enteric or Typhoid ..				
..	1	..	6	..	1	2	..	..	3	..	..	2	31	40	Febricula .....				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Ague .....				
..	..	..	..	..	..	..	..	..	..	..	1	1	20	11	Rheumatic Fever ....				
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	Puerperal Fever.....				
6	4	..	33	2	2	3	1	3	5	3	2	10	139	140	Bronchitis & Catarrh				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	Influenza .....				
..	..	..	3	1	1	..	..	..	..	..	..	1	18	12	Pleurisy & Pneumonia.				
..	1	..	11	..	2	1	..	..	4	..	3	2	77	70	Phthisis .....				
..	..	..	3	..	..	..	..	2	..	..	..	1	21	42	Constitutional Syphilis				
9	8	..	105	3	9	4	11	21	23	6	17	45	644	839	All other diseases ....				
2	1	..	50	..	..	..	3	..	22	..	26	3	235	259	Accidents .....				
20	16	2	222	11	18	11	16	26	60	10	52	70	1319	1603	TOTAL .....				

indebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
 (18) „ JAMES CRAN.  
 (19)  
 (20) Mr. A. VEITCH  
 (21) Dr. BRADDON,

(22) Mr. S. WOODCOCK,  
 (23) Dr. ALEX. WILSON,  
 (24) Mr. H. M. WILLIAMSON.  
 (25) „ JOSEPH FOSTER,

(26) Mr. W. C. BARNISH,  
 (27) „ J. V. L. WESTMACOTT,  
 (28) „ R. P. O. GORMAN,  
 (29) „ GEORGE CLEMENTS.

the report of the Association, and has, as far as practicable, been taken into account in the conclusion drawn from the weekly returns.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bowe.	Regent-rd. Dis., Mr. Tiptle.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	..	..	..	..	1	..	1	..
Measles .....	1	1	1	..	3	4	2	1	1	1	1	16	15
Whooping-cough.....	..	..	..	2	..	..	..	..	1	..	..	4	6
Scarlatina .....	2	..	..	..	1	1	..	..	..	2	..	6	25
Diarrhœa .....	..	..	..	1	..	..	1	..	..	..	1	3	12
Fever .....	..	..	1	1	..	..	..	1	..	..	..	3	12
Diseases of the Lungs	17	11	9	6	3	2	2	1	6	9	2	63	61
Other causes.....	13	14	19	9	8	9	19	4	10	6	4	115	129
<b>TOTAL NO. OF DEATHS.</b>	<b>33</b>	<b>26</b>	<b>30</b>	<b>19</b>	<b>15</b>	<b>16</b>	<b>24</b>	<b>7</b>	<b>18</b>	<b>20</b>	<b>8</b>	<b>216</b>	<b>260</b>
<b>TOTAL NO. OF BIRTHS.</b>	<b>32</b>	<b>48</b>	<b>10</b>	<b>17</b>	<b>9</b>	<b>23</b>	<b>29</b>	<b>20</b>	<b>37</b>	<b>61</b>	<b>25</b>	<b>310</b>	<b>397</b>

## Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
 Medical Officer of Health, John Whitmore, M.D.  
 Population in 1861, 161630.

At Pauper, Charitable, and Public Institutions in  
 MANCHESTER and SALFORD.  
 Population in 1861, 390,815.

4 Weeks ending 27th March.	5 Weeks ending 1st May.	4 Weeks ending 29th May.	TOTAL.	DISEASES.	4 Weeks ending 27th March.	5 Weeks ending 1st May.	4 Weeks ending 29th May.	TOTAL
2	5	10	17	..... Small-pox .....	43	80	47	170
15	25	32	72	..... Measles .....	66	133	82	281
29	46	33	108	.....Scarlet Fever.....	68	85	54	207
5	1	5	11	..... Diphtheria .....	1	1	..	2
59	123	70	252	..... Whooping-cough .....	8	11	19	38
8	4	2	14	..... Croup .....	7	..	1	8
238	341	206	785	.....Diarrhœa .....	119	183	132	434
1	..	..	1	.....Dysentery .....	5	5	1	11
..	..	..	..	..... Malignant Cholera.....	..	..	..	..
21	32	29	82	..... Erysipelas .....	14	25	22	61
9	14	11	34	.....Continued Fever .....	59	59	47	165
..	..	..	..	.....Typhus .....	73	97	51	221
15	5	1	21	..... Enteric or Typhoid .....	33	36	29	98
87	93	40	225	.....Febricula .....	150	193	114	457
..	..	1	1	.....Ague .....	..	..	..	..
56	75	47	178	..... Rheumatic Fever.....	69	71	65	205
1	1	..	2	.....Puerperal Fever .....	3	..	..	3
874	1199	613	2686	.....Bronchitis and Catarrh .....	927	1027	639	2623
5	10	6	21	..... Influenza .....	14	9	1	24
48	43	34	125	.....Pleurisy and Pneumonia .....	77	102	72	251
112	139	84	335	.....Phthisis.....	283	399	227	909
28	17	16	61	..... Constitutional Syphilis .....	116	152	116	384
3133	4746	3322	11201	....Accidents, and all other Diseases.....	3591	4988	3579	12158
4746	6924	4562	16232	<b>TOTAL</b>	5726	7656	5328	18710

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN MARCH.				Salford Meteorologl. Observatory, T. Mackereth, Esq.	Old Trafford, G.V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L.W. Reynolds Esq.
	Inches.		Wet Days.						
Penketh .....	2.726	.....	15						
Eccles .....	2.292	.....	15						
Old Trafford ..	2.096	.....	14						
Salford .....	2.176	.....	14						
Wilmslow .....	.....	.....	..						
Royton .....	.....	.....	..						
Height of barometer cistern above sea level.....				108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.
<b>Barometer.</b>				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....				29.873	29.867	29.873			29.858
Highest.....				30.199	30.270	30.199			30.302
Lowest .....				29.363	29.337	29.263			29.404
Range .....				0.836	0.933	0.836			0.898
<b>Temperature.</b>									
Adopted Mean .....				50.2	50.9	49.8			52.4
Range for Week .....				24.0	28.0	24.5			29.3
Daily Range .....				11.5	15.3	14.6			17.6
Maximum in Shade .....				66.5	70.0	65.4			69.0
Minimum in Shade .....				42.5	42.0	40.9			39.7
Temperature of Dew Point .....				41.8	44.2	42.4			44.5
<b>Hygrometrical condition of the Atmosphere.</b>									
Degree of Humidity (Saturation—1,000).....				GRS. 0.736	GRS. 0.782	GRS. 0.756	NO RETURN.	NO RETURN.	GRS. 0.750
Prevailing Winds .....				W, WNW	NW, W	W, WNW			N. NW
Rain .....				1.122	0.917	1.023			0.930
<b>Ozonometer.</b>									
Moffat .....				0.28	1.71	6.28			5.10
Schonbein .....				.....	.....	.....			.....

June, 19, 1869.

THOMAS MACKERETH, Esq., F.R.A.S.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, JUNE 26, 1869.

No. 465

#### DISEASES.—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, June the 26th, 1411 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1319, and in the corresponding week of last year it was 1686. The deaths in public practice during the week amounted to 49, being in the proportion of 1 death to every 28 cases.

Small-Pox continues to gain ground, the numbers for the last three weeks being 9, 14, and 16. The disease continues to prevail principally in Manchester, 11 having occurred there during the week, while only one was observed in Salford, 2 in Hulme, and 2 in Chorlton.

The return of Measles continues rather high, 22 cases were observed during the week, being two more than in the preceding week. The public practice of the Township of Hulme has been free from this disease during the week.

Scarlatina remains the same as it was in the previous week, 16 being returned. In the corresponding week of last year the number was 50.

There is not a great increase in the cases of Diarrhœa and Dysentery, 53 cases occurred during the week, which were 15 cases more than in the preceding week. A case of English Cholera proved fatal in forty-eight hours in St. George's District this week. These diseases are not nearly so prevalent as they were in the corresponding week of last year, when 124 cases were observed.

The Fever return is very satisfactory, the number of cases having fallen from 33 to 24. Seven were assigned to Continued Fever, 13 to Typhus, and 4 to Typhoid Fever.

There is a slight increase in the cases of Bronchitis and other acute chest diseases, 161 cases being returned instead of 157.

#### DEATHS.—*The Number Registered in Manchester and Salford, and their Causes.*

This week 198 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Fifty-nine were caused by Diseases of the Lungs, 8 each by Measles and Scarlatina, 7 by Diarrhœa, and 5 by Fever.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 54.3°; at the Salford Observatory it was 55.8°; at Eccles 55.3°; and at Old Trafford, 55.8°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



MANCHESTER AND SALES

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS  
New Cases of Disease coming under Treatment

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	,, ,, 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	Workhouse. 7	ROYAL INFIRMARY.					CHILDREN		
									In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	
Small-pox .....	2	..	..	b1	..	1	4	6	1	..	..	..	..	..	..	..
Measles .....	..	..	2	..	..	..	2	..	..	..	..	..	..	7	..	..
Scarlet Fever .....	..	..	2	..	1	2	5	..	..	..	..	..	..	1	3	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	..	1	..	1	1	2	5	2	..	..	..	..	..	15	7	..
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Malignant Cholera.....	..	..	a1	..	..	..	1	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Continued Fever.....	..	..	1	..	b1	..	2	..	..	..	..	..	..	..	..	..
Typhus .....	..	..	..	..	..	..	..	7	1	..	..	c3	..	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
Febricula.....	2	..	..	..	2	3	7	1	2	2	1	2	..	5	2	..
Ague .....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	1	1	3	..	..	2	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	1	4	3	1	b1	4	14	7	1	18	2	4	2	5	7	..
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	..	3	..	..	..	1	4	1	1	1	..	1	..	..	1	..
Phthisis .....	..	..	..	..	1	1	2	5	1	12	1	1	4	1	2	..
Constitutional Syphilis .....	1	..	..	..	..	..	1	12	..	3	..	..	..	..	..	..
All other Diseases .....	17	8	4	5	3	8	45	44	30	149	3	2	2	64	82	..
Accidents .....	1	2	..	1	..	1	5	4	14	107	1	1	2	..	..	..
TOTAL .....	24	18	13	9	10	23	97	91	52	295	9	14	13	101	105	..

a Died in 48 hours.      b Removed to Workhouse.      c Removed to Fever Ward.

Medical Officers to whom the Association

- (1) Mr. R. M. MANN.

(2) „ J. BROADBENT,

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N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

## REPORTS OF MANCHESTER AND ADJOINING DISTRICTS

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SALFORD.					HULME.			CHORLTON.		ARDWICK	PENDLETON & PENDLEBURY.						DEATHS.
..... 1,329 .....					..... 477.....			... 646...		508.	..... 2650.....				Area in Statute Acres.		
..... 70,967. ....					... 68,209. ...			.. 44,850..		21739	..... 24,448 .....				Population in 1861.		
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS												
	Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	
	17	18	19	20	21	22	23	24	25	26	27	28	29				
	..	..	1	..	..	..	61	1	..	..	..	..	2	16	1	Small-pox .....	..
	..	7	..	4	..	..	..	..	..	1	1	..	..	22	19	Measles .....	1
	..	..	..	3	..	3	..	..	..	1	..	..	..	16	50	Scarlet Fever. ....	..
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..
	..	..	..	1	..	..	..	..	..	1	..	..	..	5	8	Whooping-cough ....	2
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..
	3	..	..	7	7	1	..	..	..	1	..	1	..	52	121	Diarrhoea .....	1
	..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	Dysentery .....	..
	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	Malignant Cholera ..	1
	..	..	..	..	..	..	..	3	..	1	..	..	..	5	6	Erysipelas .....	..
	..	..	2	3	..	..	..	..	..	..	..	..	..	7	24	Continued Fever ....	..
	..	..	..	1	..	..	..	..	..	..	..	..	1	13	28	Typhus .....	3
	..	..	..	2	..	..	..	1	..	..	..	..	..	4	5	Enteric or Typhoid ..	..
	..	..	..	5	..	1	..	2	..	8	..	..	2	42	61	Febricula .....	..
	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	Ague .....	..
	..	..	..	..	..	..	..	..	..	..	..	..	..	7	14	Rheumatic Fever ....	1
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....	..
	6	3	..	39	5	1	3	1	1	8	4	5	4	144	144	Bronchitis & Catarrh	4
	..	..	..	..	..	..	..	..	..	..	..	..	..	2	4	Influenza .....	..
	1	..	..	2	1	..	..	..	..	..	..	1	..	15	23	Pleurisy & Pneumonia.	1
	..	3	..	12	..	1	..	1	..	1	..	2	6	58	68	Phthisis .....	11
	1	..	..	4	1	..	61	1	..	..	..	..	2	28	46	Constitutional Syphilis	..
	21	18	2	76	2	8	7	2	14	15	6	19	75	705	786	All other diseases ....	21
	..	..	..	83	1	..	2	..	..	15	..	24	6	267	275	Accidents .....	3
	32	31	5	242	17	15	14	12	15	52	11	52	98	1411	1686	TOTAL .....	49

indebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
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 (25) „ JOSEPH FOSTER,

(26) Mr. W. C. BARNISH,  
 (27) „ J. V. L. WESTMACOTT,  
 (28) „ R. P. O. GORMAN,  
 (29) „ GEORGE CLEMENTS.

the report of the Association, and has, as far as practicable, been taken into account in the conclusion drawn from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tupples.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	1	..	..	..	4	..	..	..	..	2	1	8	4
Whooping-cough.....	..	1	1	1	..	..	..	..	..	..	..	3	2
Scarlatina .....	1	2	..	..	..	1	1	..	..	3	..	8	13
Diarrhoea .....	1	2	..	..	1	1	1	..	1	..	..	7	13
Fever .....	..	..	3	..	..	..	1	1	..	..	..	5	10
Diseases of the Lungs	3	13	6	4	6	4	5	3	5	6	4	59	62
Other causes.....	10	8	15	9	2	8	16	3	14	18	5	108	117
TOTAL NO. OF DEATHS.	16	26	25	14	13	14	24	7	20	29	10	198	221
TOTAL NO. OF BIRTHS.	31	36	10	14	17	31	53	18	36	54	12	322	403

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 27th March.	5 Weeks ending 1st May.	4 Weeks ending 29th May.	TOTAL.	DISEASES.	4 Weeks ending 27th March.	5 Weeks ending 1st May.	4 Weeks ending 29th May.	TOTAL
2	5	10	17	..... Small-pox .....	43	80	47	170
15	25	32	72	..... Measles .....	66	133	82	281
29	46	33	108	..... Scarlet Fever.....	68	85	54	207
5	1	5	11	..... Diphtheria .....	1	1	..	2
59	123	70	252	..... Whooping-cough .....	8	11	19	38
8	4	2	14	..... Croup .....	7	..	1	8
238	341	206	785	..... Diarrhoea .....	119	183	132	434
1	..	..	1	..... Dysentery .....	5	5	1	11
..	..	..	..	..... Malignant Cholera.....	..	..	..	..
21	32	29	82	..... Erysipelas .....	14	25	22	61
9	14	11	34	..... Continued Fever .....	59	59	47	165
..	..	..	..	..... Typhus .....	73	97	51	221
15	5	1	21	..... Enteric or Typhoid .....	33	36	29	98
87	98	40	225	..... Febricula .....	150	193	114	457
..	..	1	1	..... Ague .....	..	..	..	..
56	75	47	178	..... Rheumatic Fever.....	69	71	65	205
1	1	..	2	..... Puerperal Fever.....	3	..	..	3
874	1199	613	2686	..... Bronchitis and Catarrh .....	927	1027	669	2623
5	10	6	21	..... Influenza.....	14	9	1	24
48	43	34	125	..... Pleurisy and Pneumonia .....	77	102	72	251
112	139	84	335	..... Phthisis.....	283	399	227	909
28	17	16	61	..... Constitutional Syphilis .....	116	152	116	384
3133	4746	3322	11201	....Accidents, and all other Diseases.....	3591	4988	3579	12158
4746	6924	4562	16232	TOTAL	5726	7656	5328	18710

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN MARCH.				Salford Meteorolog. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Inches.									
Penketh .....	2.726	.....	Wet Days.						
Eccles .....	2.292	.....	15						
Old Trafford ..	2.096	.....	15						
Salford .....	2.176	.....	14						
Wilmslow ....	.....	.....	..						
Royton .....	.....	.....	..						
Height of barometer cistern above sea level.....				108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.
Barometer.				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....				30.160	30.169	30.160	30.153	..	30.160
Highest.....				30.179	30.198	30.179	30.054	..	30.280
Lowest.....				29.949	29.960	29.949	29.760	..	30.054
Range .....				0.230	0.238	0.230	0.294	..	0.226
Temperature.									
Adopted Mean .....				55.8	55.4	55.3	54.8	..	58.1
Range for Week .....				25.3	28.3	33.7	21.9	..	34.4
Daily Range.....				12.1	15.5	15.5	11.4	..	18.9
Maximum in Shade .....				70.8	71.0	73.4	69.4	..	74.5
Minimum in Shade .....				45.5	42.7	39.7	47.5	..	40.1
Temperature of Dew Point .....				48.8	50.3	50.5	49.1	..	52.0
Hygrometrical condition of the Atmosphere.				GRS.	GRS.	GRS.	GRS.	NO RETURN.	GRS.
Degree of Humidity (Saturation—1,000).....				0.782	0.838	0.843	0.788	..	0.800
Prevailing Winds .....				NW, W	SW	NW, W	....	..	NW, E
Rain .....				0.011	....	0.013	0.78	..	....
Ozonometer.									
Moffat .....				....	....	0.71	0.57	..	....
Schonbein .....				....	....	....	....	..	2.90



## Manchester and Salford Sanitary Association.

## WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, JULY 3, 1869.

No. 466

**DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, July the 3rd, 1438 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1411, and in the corresponding week of last year it was 1672. The deaths in public practice during the week amounted to 48, being in the proportion of 1 death to every 29 cases.

The present return is satisfactory.

There is but little change in the return of Small-Pox cases, 15 being reported instead of 16. This disease was confined to the Townships of Manchester and Salford, 11 cases having occurred in the former and 4 in the latter.

Twenty-one cases of Measles were returned for this week against 22 in the previous one. Twelve of these occurred in Manchester, 4 in Salford, 1 in Hulme, 2 in Chorlton, and 2 in Ardwick.

The return of Scarlatina remains the same as it was in each of the two preceding weeks, 16 cases being returned. In the corresponding week of last year the number was 52.

There is a decrease in the cases of Diarrhoea and Dysentery, 47 being returned instead of 53. This is an unusually small return for this period of the year. In the corresponding week of last year the number was 145.

The Fever return continues to improve—23 cases being returned—one less than in the preceding week. Six were assigned to Continued Fever, 10 to Typhus, and 7 to Typhoid Fever.

There is a rise in the cases of Bronchitis and other acute chest diseases, 177 being returned instead of 161.

**DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

This week 191 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Fifty-six deaths were caused by Diseases of the Lungs, 13 by Measles, 11 by Fever, 9 by Diarrhoea, and 7 by Whooping-Cough.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 56·9°; at the Salford Observatory it was 58·5°; at Eccles 58·4°; and at Old Trafford, 58·2°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS.  
*New Cases of Disease coming under Treatment.*

*a* Removed to Workhouse.

(1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9) {	(13) Mr. H. RUNCORN
(2) „ J. BROADBENT,	(6) Dr. LEDWARD,	(10) {	(14) „ W. M. MACCA
(3) „ EDWARD MEACHAM,	(7) Mr. J. WESTMORELAND,	(11) {	(15) „ J. OGDEN FLE
(4) „ JOHN WALSH.	(8) „ J. P. SLEIGHTHOLME,	(12) {	(16) Dr. A. C. CLARKE

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# ANITARY ASSOCIATION.

## NS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 3rd day of July, 1869.

SA LFORD.					HULME.			CHORL- TON.		ARD- WICK	PENDLETON & PENDLEBURY.					DEATHS.
... 1,329 .....					.... 477. ....			.. 646. ..		508.	..... 2650.....			Area in Statute Acres.		
... 70,967. ....					.. 68,209. ..			.. 44,850..		21739	..... 24,448 .....			Population in 1861.		
LAW STRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	
Regent Road. 17	Regent Road No. 2. 18	Workhouse. 19	Dispensary. 20	Salford County Gaol. 21	St. George's. 22	Medlock. 23	St. Philip's 24									
..	..	2	..	..	..	.	..	..	..	..	..	..	15	1	Small-pox .....	1
1	2	..	1	..	..	1	..	..	2	..	2	..	21	31	Measles .....	1
..	..	..	4	..	..	..	..	..	6	..	..	..	16	52	Scarlet Fever.....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..
..	..	..	..	..	..	..	..	..	2	..	..	..	9	3	Whooping-cough ....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..
1	2	..	4	3	1	..	..	1	..	..	..	1	46	139	Diarrhœa .....	2
..	..	..	..	..	..	..	..	1	..	..	..	..	1	6	Dysentery .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..
..	..	..	..	..	..	..	2	..	..	..	..	..	5	..	Erysipelas .....	..
..	..	1	2	..	..	1	..	..	..	..	..	..	6	29	Continued Fever ....	..
..	..	..	..	..	..	..	..	..	..	..	..	2	10	21	Typhus .....	2
..	..	..	2	..	..	..	..	1	..	..	..	..	7	6	Enteric or Typhoid ..	2
..	1	5	6	..	..	..	2	1	3	..	..	..	35	39	Febricula .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..
..	..	..	..	..	..	1	..	1	..	..	1	3	16	15	Rheumatic Fever ....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....	..
6	..	..	39	4	1	..	..	9	9	2	3	5	157	112	Bronchitis & Catarrh	7
..	..	..	..	..	..	..	..	..	..	..	..	..	2	5	Influenza .....	..
..	.	..	3	..	..	2	..	..	1	..	..	1	18	11	Pleurisy & Pneumonia.	1
1	..	..	13	..	..	..	1	..	5	1	2	3	78	77	Phthisis .....	6
..	..	..	5	2	..	..	2	1	..	..	..	3	23	49	Constitutional Syphilis	1
11	11	4	75	4	2	3	4	14	28	5	17	57	707	789	All other diseases ....	24
2	2	..	61	..	..	..	..	3	17	..	27	3	266	287	Accidents .....	1
22	18	12	215	13	4	8	11	32	73	8	52	78	1438	1672	TOTAL .....	48

ndebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18) „ JAMES CRAN.  
(19)  
(20) Mr. A. VEITCH  
(21) Dr. BRADDON,

(22) Mr. S. WOODCOCK,  
(23) Dr. ALEX. WILSON,  
(24) Mr. H. M. WILLIAMSON.  
(25) „ JOSEPH FOSTER,

(26) Mr. W. C. BARNISH,  
(27) „ J. V. L. WESTMACOTT,  
(28) „ R. P. O. GORMAN,  
(29) „ GEORGE CLEMENTS.

he report of the Association, and has, as far as practicable, been taken into account in the conclusion  
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Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tiplle.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	1	..	..	..	..	..	..	..	..	..	1	..
Measles .....	1	2	..	..	3	2	3	..	..	1	1	13	12
Whooping-cough.....	1	2	..	..	..	..	1	..	..	3	..	7	3
Scarlatina .....	1	..	..	..	..	..	1	..	..	2	..	4	21
Diarrhoea .....	1	1	1	..	1	..	1	..	2	2	..	9	54
Fever .....	2	..	1	1	..	1	4	..	..	1	1	11	9
Diseases of the Lungs	12	4	6	2	1	..	4	2	7	9	9	56	51
Other causes.....	6	12	5	5	6	9	17	5	8	10	7	90	132
TOTAL NO. OF DEATHS.	24	22	13	8	11	12	31	7	17	28	18	191	282
TOTAL NO. OF BIRTHS.	35	50	11	15	18	23	35	16	25	56	19	313	367

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.

Medical Officer of Health, John Whitmore, M.D.

Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

Population in 1861, 390,315.

4 Weeks ending 27th March.	5 Weeks ending 1st May.	4 Weeks ending 29th May.	TOTAL.	DISEASES.	4 Weeks ending 27th March.	5 Weeks ending 1st May.	4 Weeks ending 29th May.	TOTAL
2	5	10	17	..... Small-pox .....	43	80	47	170
15	25	32	72	..... Measles .....	66	133	82	281
29	46	33	108	..... Scarlet Fever.....	68	85	54	207
5	1	5	11	..... Diphtheria .....	1	1	..	2
59	123	70	252	..... Whooping-cough .....	8	11	19	38
8	4	2	14	..... Croup .....	7	..	1	8
238	341	206	785	..... Diarrhoea .....	119	183	132	434
1	..	..	1	..... Dysentery .....	5	5	1	11
..	..	..	..	..... Malignant Cholera.....	..	..	..	..
21	32	29	82	..... Erysipelas .....	14	25	22	61
9	14	11	34	..... Continued Fever .....	59	59	47	165
..	..	..	..	..... Typhus .....	73	97	51	221
15	5	1	21	..... Enteric or Typhoid .....	33	36	29	98
87	98	40	225	..... Febricula .....	150	193	114	457
..	..	1	1	..... Ague .....	..	..	..	..
56	75	47	178	..... Rheumatic Fever.....	69	71	65	205
1	1	..	2	..... Puerperal Fever.....	3	..	..	3
874	1199	613	2686	..... Bronchitis and Catarrh .....	927	1027	669	2623
5	10	6	21	..... Influenza.....	14	9	1	24
48	43	34	125	..... Pleurisy and Pneumonia .....	77	102	72	251
112	139	84	335	..... Phthisis.....	283	399	227	909
28	17	16	61	..... Constitutional Syphilis .....	116	152	116	384
3133	4746	3322	11201	....Accidents, and all other Diseases.....	3591	4988	3579	12158
4746	6924	4562	16232	TOTAL	5726	7656	5328	18710

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN MARCH.				Salford Meteorologi. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq	Eccles, T. MACKERETH Esq	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L. W. Reynolds Esq
Inches.	Wet Days.								
Penketh .....	2.726	.....	15						
Eccles .....	2.292	.....	15						
Old Trafford ..	2.096	.....	14						
Salford .....	2.176	.....	14						
Wilmslow ....	.....	.....	..						
Royton .....	.....	.....	..						
Height of barometer cistern above sea level.....				108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.
Barometer.				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....				30.248	30.270	30.248			
Highest.....		Unreduced {		30.273	30.292	30.273			
Lowest .....				30.071	30.040	30.071			
Range .....				0.202	0.252	0.202			
Temperature.									
Adopted Mean .....				58.5	58.2	58.4			
Range for Week .....				25.2	34.0	32.0			
Daily Range .....				19.7	24.4	25.6			
Maximum in Shade .....				75.1	80.0	77.5			
Minimum in Shade .....				49.9	46.0	45.5			
Temperature of Dew Point .....				49.6	50.6	49.5			
Hygrometrical condition of the Atmosphere.				GRS.	GRS.	GRS.			
Degree of Humidity (Saturation—1,000).....				0.725	0.760	0.725			
Prevailing Winds .....				N, NE	E, S, SW	N, NE			
Rain .....				....	....	....			
Ozonometer.						1.14			
Moffat .....				....	....	....			
Schonbein .....				....	....	....			



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, JULY 10, 1869.

No. 467

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, July the 10th, 1457 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1438, and in the corresponding week of last year it was 1712. The deaths in public practice during the week amounted to 59, being in the proportion of 1 death to every 24 cases.

There is a decrease of 3 in the number of Small Pox cases, 12 being returned. Last week this disease was confined to the public practice of the townships of Manchester and Salford; this week 9 cases occurred in Manchester, 2 in Hulme, and 1 in Chorlton,—Salford being free from it.

Measles increases in prevalency; the number of cases has risen from 21 to 26. This is the zymotic disease which has caused the largest number of deaths for several weeks.

There is this week a slight increase in the cases of Scarlatina, 18 being returned instead of 16. In the corresponding week of last year the number was 47.

Eight cases of Whooping-Cough were observed during the week, being 1 less than in the preceding return.

The cases of Diarrhoea and Dysentery have risen from 47 to 85; 34 of these occurred in children. The number of these summer complaints continues very low. In the corresponding week of last year there were 249 cases.

The fever return is not so satisfactory this week, 44 cases having occurred, being 21 more than in the week preceding; 12 cases were assigned to Continued Fever, 30 to Typhus, and 2 to Typhoid Fever.

Notwithstanding the weekly rise in the mean temperature of the air the cases of Bronchitis and other acute chest diseases have risen from 177 to 189.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

This week 207 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Fifty-nine deaths were caused by Diseases of the Lungs, 15 by Measles, 9 by Diarrhoea, and 7 each by Scarlatina and Fever.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 64.2°; at the Salford Observatory it was 61.6°; at Eccles 61.5°; and at Old Trafford, 62.6°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS  
New Cases of Disease coming under Treatment

MANCHESTER.																
Area in Statute Acres .....		Manchester Township 1,645 .....														
Population in 1861 .....		,, ,, 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	Workhouse. 7	ROYAL INFIRMARY					CHILDREN		City Gaol. 15
									In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	
Small-pox .....	a3	..	..	..	..	..	3	3	..	c2	c1	..	..	..	..	..
Measles .....	..	1	1	..	..	..	2	..	1	..	..	..	..	4	..	..
Scarlet Fever .....	..	..	..	..	1	..	1	..	..	..	..	..	..	3	5	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	1	1	..	..	2	..	..	..	4	1	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	1	5	..	2	1	3	12	1	1	3	..	..	..	24	10	8
Dysentery .....	..	..	..	1	..	..	1	..	..	1	..	..	1	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever.....	a2	..	1	1	..	..	4	..	..	..	..	..	..	..	..	..
Typhus .....	..	..	..	..	1	..	1	6	3	..	..	2	1	..	..	..
Enteric or Typhoid .....	..	b1	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Febricula.....	..	1	..	1	..	2	4	1	1	..	1	2	1	9	3	2
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	..	1	12	..	..	1	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	3	..	3	4	1	7	18	6	1	25	2	2	7	5	14	4
Influenza .....	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..
Pleurisy and Pneumonia....	..	..	..	2	2	..	4	2	..	3	2	..	1	..	1	2
Phthisis .....	..	..	1	..	3	..	4	7	..	22	..	1	3	2	2	1
Constitutional Syphilis .....	..	..	..	..	..	..	..	10	..	6	..	..	..	..	..	3
All other Diseases .....	15	6	16	5	3	9	54	60	28	89	4	6	7	56	95	4
Accidents .....	..	..	..	1	..	1	2	2	17	126	..	..	1	..	..	..
TOTAL .....	24	14	22	17	12	23	112	98	53	293	10	13	23	107	131	24

a 1 Removed to Workhouse.      b Removed to Workhouse.      c Removed to Small Pox Hospital.

Medical Officers to whom the Association

- (1) Mr. R. M. MANN.

(2) „ J. BROADBENT,

(3) „ EDWARD MEACHAM,

(4) „ JOHN WALSH.
- (5) Mr. OCTAVIUS DEAN,

(6) Dr. LEDWARD.

(7) Mr. J. WESTMORELAND,

(8) „ J. P. SLEIGHTHOLME,
- (9)

(10) } Mr. W. H. CARRUTHERS,

(11) } „ J. PORTER,

(12) } „ C. CURRIE RITCHIE,
- (13) Mr. H. RUNCOR

(14) „ W. M. MACC

(15) „ J. OGDEN FIE

(16) Dr. A. C. CLARK

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# ANITARY ASSOCIATION.

ONS OF MANCHESTER AND ADJOINING DISTRICTS

e Week ending the 10th day of July, 1869.

SALFORD.					HULME.			CHORLTON.		ARDWICK.	PENDLETON & PENNLEBURY						DEATHS.
..... 1,329 .....					..... 477 .....			.. 646 .....		508.	..... 2650 .....				Area in Statute Acres.		
..... 70,967. ....					.. 68,209. ..			.. 44,850.		21739	..... 24,448 .....				Population in 1861.		
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS												
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.		
17	18	19	20	21	22	23	24	25	26	27	28	29					
..	..	..	..	..	..	2	..	..	..	..	..	1	12	..	Small-pox .....		
2	..	4	4	..	4	.	..	..	5	..	..	..	26	17	Measles .....		
..	..	..	6	..	..	..	2	..	1	..	..	..	18	47	Scarlet Fever.....		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....		
..	..	..	..	..	..	..	..	..	..	..	..	..	8	6	Whooping-cough ....		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....		
2	2	..	3	5	2	..	..	..	5	..	1	..	81	243	Diarrhoea .....		
..	..	..	..	..	..	..	1	..	..	..	..	..	4	6	Dysentery .....		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..		
..	..	..	..	..	..	..	..	..	1	..	..	..	2	10	Erysipelas .....		
..	..	3	4	..	1	..	..	..	..	..	..	..	12	22	Continued Fever ....		
..	..	..	1	..	..	..	1	e9	..	..	..	d5	30	22	Typhus .....		
..	..	..	1	..	..	..	..	..	..	..	..	..	2	6	Enteric or Typhoid ..		
..	..	..	3	..	..	..	..	..	4	..	..	..	31	49	Febricula .....		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Ague .....		
..	..	2	..	..	..	2	..	..	..	1	..	..	19	10	Rheumatic Fever ....		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....		
4	4	..	37	2	4	3	2	4	7	2	4	6	166	129	Bronchitis & Catarrh		
..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	Influenza .....		
..	.	..	3	1	..	..	..	..	1	..	..	1	21	15	Pleurisy & Pneumonia.		
1	1	..	14	..	2	3	1	..	1	..	1	6	74	61	Phthisis .....		
..	..	..	9	..	1	..	..	3	..	..	1	4	37	48	Constitutional Syphilis		
10	11	10	55	2	6	4	4	14	33	7	15	53	643	749	All other diseases ....		
2	..	..	70	..	1	..	..	1	21	..	25	1	269	269	Accidents .....		
21	18	19	210	10	21	14	11	31	79	10	47	78	1457	1112	TOTAL .....		

ar out of one Family. e Eight Removed to Workhouse.

ndebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,	(22) Mr. S. WOODCOCK,	(26) Mr. W. C. BARNISH,
(18) „ JAMES CRAN.	(23) Dr. ALEX. WILSON,	(27) „ J. V. L. WESTMACOTT,
(19)	(24) Mr. H. M. WILLIAMSON.	(28) „ R. P. O. GORMAN,
(20) Mr. A. VEITCH	(25) „ JOSEPH FOSTER,	(29) „ GEORGE CLEMENTS.
(21) Dr. BRADDON,		

he report of the Association, and has, as far as practicable, been taken into account in the conclusion  
vn from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. John.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bowe.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	..	8	..	..	5	..	1	..	..	1	..	15	9
Whooping-cough.....	1	1	..	..	..	..	..	..	..	..	1	3	3
Scarlatina .....	2	..	..	..	1	..	..	1	1	2	..	7	24
Diarrhœa .....	4	1	1	..	..	2	..	..	1	..	..	9	62
Fever .....	..	1	3	..	1	1	1	..	..	..	..	7	14
Diseases of the Lungs	9	10	4	1	4	2	3	2	8	14	2	59	51
Other causes.....	13	13	23	7	6	11	9	4	5	16	..	107	133
<b>TOTAL NO. OF DEATHS.</b>	29	34	31	8	17	16	14	7	15	33	3	207	296
<b>TOTAL NO. OF BIRTHS.</b>	32	44	18	13	19	24	23	15	25	40	16	269	307

*Monthly Return of New Cases of Disease coming under Treatment*

**In 11 Charitable Institutions in St. Marylebone, LONDON.**  
 Medical Officer of Health, John Whitmore, M.D.  
 Population in 1861, 161630.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 27th March.	5 Weeks ending 1st May.	4 Weeks ending 29th May.	TOTAL.	DISEASES.	4 Weeks ending 27th March.	5 Weeks ending 1st May.	4 Weeks ending 29th May.	TOTAL.
2	5	10	17	Small-pox	43	80	47	170
15	25	32	72	Measles	66	133	82	281
29	46	33	108	Scarlet Fever	68	85	54	207
5	1	5	11	Diphtheria	1	1	..	2
59	123	70	252	Whooping-cough	8	11	19	38
8	4	2	14	Croup	7	..	1	8
238	341	206	785	Diarrhœa	119	183	132	434
1	..	..	1	Dysentery	5	5	1	11
..	..	..	..	Malignant Cholera	..	..	..	..
21	32	29	82	Erysipelas	14	25	22	61
9	14	11	34	Continued Fever	59	59	47	165
..	..	..	..	Typhus	73	97	51	221
15	5	1	21	Enteric or Typhoid	33	36	29	98
87	98	40	225	Febricula	150	193	114	457
..	..	1	1	Ague	..	..	..	..
56	75	47	178	Rheumatic Fever	69	71	65	205
1	1	..	2	Puerperal Fever	3	..	..	3
874	1199	613	2686	Bronchitis and Catarrh	927	1027	669	2623
5	10	6	21	Influenza	14	9	1	24
48	43	34	125	Pleurisy and Pneumonia	77	102	72	251
112	139	84	335	Phthisis	283	399	227	909
28	17	16	61	Constitutional Syphilis	116	152	116	384
3133	4746	3322	11201	Accidents, and all other Diseases	3091	4988	3579	12158
4746	6924	4562	16232	TOTAL	5726	7656	5328	18710

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN MARCH.		Salford Meteorology, Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq	Eccles, T. MACKERETH Esq	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L. W. Reynolds Es
Inches.	Wet Days.						
Penketh .....	2.726 .....	15					
Eccles .....	2.292 .....	15					
Old Trafford ..	2.096 .....	14					
Salford .....	2.176 .....	14					
Wilmslow ....	.....	..					
Royton .....	.....	..					
Height of barometer cistern above sea level.....		108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.
<b>Barometer.</b>		INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....		30.026	30.035	30.026			
Highest.....		30.319	30.374	30.319			
Lowest.....		29.723	29.721	29.723			
Range.....		0.596	0.653	0.596			
<b>Temperature.</b>							
Adopted Mean .....		61.6	62.6	61.5			
Range for Week .....		25.5	32.7	24.7			
Daily Range .....		13.5	18.6	15.2			
Maximum in Shade .....		75.5	79.7	74.8			
Minimum in Shade .....		50.0	47.0	50.1			
Temperature of Dew Point .....		50.4	51.1	52.9			
<b>Hygrometrical condition of the Atmosphere.</b>							
Degree of Humidity (Saturation—1,000).....		GRS. 0.715	GRS. 0.666	GRS. 0.740	NO RETURN.	NO RETURN.	NO RETURN.
Prevailing Winds .....		SW	SW, S	SW			
Rain .....		0.578	0.500	0.481			
<b>Ozonometer.</b>							
Moffat .....		....	5.57	3.28			
Schonbein .....		....	1.29	....			

July, 10, 1869.

THOMAS MACKERETH, Esq., F.R.A.S.

**Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.**



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, JULY 17, 1869.

No. 468.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, July the 17th, 1400 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1457, and in the corresponding week of last year it was 1721. The deaths in public practice during the week amounted to 63, being in the proportion of 1 death to every 22 cases.

The present return is satisfactory.

There is this week a decrease in the number of cases of all the diseases of the zymotic class, excepting Whooping-Cough and Diarrhœa.

Small Pox still prevails chiefly in Manchester, 8 cases were observed there and 2 in Salford, the other districts being free from the disease.

There is a considerable decline in the number of Measles cases, 12 being returned instead of 26. This disease was pretty generally distributed during the week.

There is a decrease of 4 in the cases of Scarlatina,—14 were observed; 5 of these occurred in Manchester, 5 in Salford, and 2 each in Hulme and Chorlton. In the corresponding week of last year the number was 52.

The cases Diarrhœa and Dysentery have risen from 85 to 100. In the corresponding week of last year the number was 267.

The fever return is very satisfactory, 13 cases only having occurred in the public practice of the week. Four of these were assigned to Continued Fever, 8 to Typhus, and 1 to Typhoid Fever. In the corresponding week of last year 68 cases were returned.

The cases of Bronchitis and other acute chest diseases have fallen from 189 to 150.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

This week 225 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Fifty-six deaths were caused by Diseases of the Lungs, 24 by Diarrhœa, 12 by Measles, 10 by Fever, and 8 by Scarlatina.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 66·9°; at the Salford Observatory it was 63·1°; at Eccles 62·5°; and at Old Trafford, 63·4°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



MANCHESTER AND SALFO

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC IN  
New Cases of Disease coming under Treatment

MANCHESTER.																
Area in Statute Acres .....		Manchester Township 1,645 .....														
Population in 1861 .....		,, ,, 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	ROYAL INFIRMARY.						CHILDREN		
								Workhouse. 7	In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	City Gaol. 15
Small-pox .....	..	..	..	..	..	..	..	3	4	..	b1	..	..	..	..	..
Measles .....	..	..	..	2	1	..	3	..	..	..	..	..	..	1	..	..
Scarlet Fever .....	..	..	..	..	..	..	..	..	1	..	..	..	..	2	2	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	7	..
Croup .....	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..
Diarrhoea.....	1	1	..	..	2	1	5	1	..	2	..	..	..	29	21	13
Dysentery .....	a1	..	1	1	..	1	4	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever.....	..	a1	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Typhus .....	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Febricula.....	..	..	..	..	1	3	4	..	..	..	..	1	2	5	2	3
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	1	..	1	..	..	2	..	..	1	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	1	2	..	1	1	2	7	7	..	14	3	2	3	9	13	4
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia.....	..	..	..	..	..	1	1	3	..	2	..	..	1	1	5	..
Phthisis .....	..	1	..	1	..	1	3	5	1	21	2	5	3	1	..	1
Constitutional Syphilis .....	..	..	..	..	..	3	3	7	..	8	..	..	..	..	1	3
All other Diseases .....	8	5	6	8	4	5	36	57	18	150	2	4	5	55	86	6
Accidents .....	..	1	..	..	..	2	3	2	16	130	..	..	..	..	..	..
TOTAL .....	11	11	7	13	10	20	72	87	40	329	8	12	16	103	137	30

a Removed to Workhouse.      b Removed to Small Pox Ward.

Medical Officers to whom the Association

(1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9)	(13) Mr. H. RUNCORN.
(2) „ J. BROADBENT,	(6) Dr. LEDWARD.	(10) } Mr. W. H. CARRUTHERS,	(14) „ W. M. MACCAL
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# ANITARY ASSOCIATION.

NS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 17th day of July, 1869.

SA LFORD.					HULME.			CHORL- TON.		ARD- WICK	PENDLETON & PENDLEBURY						DEATHS.
.. 1,329 .....					.... 477. ....			.. 646. ...		508.	..... 2650.....				Area in Statute Acres.		
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LAW TRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS												
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..	1	..	1	..	..	..	..	..	..	..	..	..	10	..	Small-pox .....	..	
1	..	..	2	..	..	.	1	1	1	..	1	1	12	17	Measles .....	1	
..	..	..	5	..	1	..	1	..	2	..	..	..	14	52	Scarlet Fever.....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..	
..	..	..	1	..	..	..	..	..	..	..	..	..	9	5	Whooping-cough ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	Croup .....	1	
1	..	1	7	6	1	..	..	1	1	..	2	5	96	258	Diarrhoea .....	2	
..	..	..	..	..	..	..	..	..	..	..	..	..	4	9	Dysentery .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Malignant Cholera ..	..	
..	..	..	..	1	..	..	..	..	..	..	..	..	1	6	Erysipelas .....	..	
..	..	1	2	..	..	..	..	..	..	..	..	..	4	35	Continued Fever ....	..	
..	..	..	..	..	..	..	1	3	..	..	..	2	8	27	Typhus .....	3	
..	..	..	1	..	..	..	..	..	..	..	..	..	1	6	Enteric or Typhoid ..	1	
..	..	..	4	..	..	1	2	4	4	..	1	1	34	35	Febricula .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	4	6	Rheumatic Fever ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....	..	
4	2	..	32	2	1	2	1	..	3	2	5	11	127	107	Bronchitis & Catarrh	4	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	Influenza .....	..	
..	..	..	3	1	..	..	1	..	1	..	2	2	23	13	Pleurisy & Pneumonia.	2	
2	2	..	9	..	1	1	..	1	3	..	2	5	69	73	Phthisis .....	16	
..	..	..	8	2	..	..	..	..	1	..	1	2	37	32	Constitutional Syphilis	1	
0	10	9	82	3	3	5	7	15	28	..	15	40	658	716	All other diseases ....	31	
1	..	..	71	..	..	..	..	1	22	..	39	3	283	316	Accidents .....	1	
9	15	11	228	15	7	9	14	26	66	2	68	72	1400	1721	TOTAL ..	63	

ebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18) „ JAMES CRAN.  
(19)  
(20) Mr. A. VEITCH  
(21) Dr. BRADDON,

(22) Mr. S. WOODCOCK,  
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Small Pox .....	1	..	1	..	..	..	..	..	..	..	..	2	..
Measles .....	3	3	..	..	..	..	2	1	1	2	..	12	6
Whooping-cough .....	..	2	..	..	1	..	..	..	1	..	..	2	..
Scarlatina .....	..	1	..	..	..	..	..	..	1	4	..	8	21
Diarrhoea .....	9	1	2	1	1	7	1	..	1	1	..	24	101
Fever .....	..	1	5	..	..	1	2	1	..	..	..	10	13
Diseases of the Lungs .....	10	3	15	1	5	..	1	..	7	11	3	56	41
Other causes .....	15	11	15	4	3	11	14	10	9	16	3	111	131
TOTAL NO. OF DEATHS.	38	22	38	6	10	19	21	12	19	34	6	225	313
TOTAL NO. OF BIRTHS.	37	42	22	17	12	23	32	13	35	51	20	301	262

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161630.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 27th March.	5 Weeks ending 1st May.	4 Weeks ending 29th May.	TOTAL.	DISEASES.	4 Weeks ending 27th March.	5 Weeks ending 1st May.	4 Week- ending 29th May.	TOTAL
2	5	10	17	..... Small-pox .....	43	80	47	170
15	25	32	72	..... Measles .....	66	133	82	281
29	46	33	108	..... Scarlet Fever .....	68	85	54	207
5	1	5	11	..... Diphtheria .....	1	1	..	2
59	123	70	252	..... Whooping-cough .....	8	11	19	38
8	4	2	14	..... Croup .....	7	..	1	8
238	341	206	785	..... Diarrhoea .....	119	183	132	434
1	..	..	1	..... Dysentery .....	5	5	1	11
..	..	..	..	..... Malignant Cholera .....	..	..	..	..
21	32	29	82	..... Erysipelas .....	14	25	22	61
9	14	11	34	..... Continued Fever .....	59	59	47	165
..	..	..	..	..... Typhus .....	73	97	51	221
15	5	1	21	..... Enteric or Typhoid .....	33	36	29	98
87	93	40	225	..... Febricula .....	150	193	114	457
..	..	1	1	..... Ague .....	..	..	..	..
56	75	47	178	..... Rheumatic Fever .....	69	71	65	205
1	1	..	2	..... Puerperal Fever .....	3	..	..	3
874	1199	613	2686	..... Bronchitis and Catarrh .....	927	1027	669	2623
5	10	6	21	..... Influenza .....	14	9	1	24
48	43	34	125	..... Pleurisy and Pneumonia .....	77	102	72	251
112	139	84	335	..... Phthisis .....	283	399	227	909
28	17	16	61	..... Constitutional Syphilis .....	116	152	116	384
3133	4746	3322	11201	..... Accidents, and all other Diseases .....	3591	4938	3579	12158
4746	6924	4562	16232	TOTAL	5726	7656	5328	18710

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

FALL OF RAIN IN MARCH.				Salford Meteorologl. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Inches.		Wet Days.							
Penketh .....	2.726	.....	15						
Eccles .....	2.292	.....	15						
Old Trafford ..	2.096	.....	14						
Salford .....	2.176	.....	14						
Wilmslow ....	....	.....	..						
Royton .....	....	.....	..						
Height of barometer cistern above sea level.....				108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.
<b>Barometer.</b>				INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....				30.207	30.205	30.207			30.205
Highest.....				30.309	30.328	30.309			30.306
Lowest.....				30.007	29.986	30.007			30.100
Range .....				0.302	0.342	0.302			0.296
<b>Temperature.</b>									
Adopted Mean .....				63.1	63.4	62.5			64.2
Range for Week .....				34.1	42.5	42.1			50.4
Daily Range .....				17.6	22.6	21.8			29.8
Maximum in Shade .....				84.9	89.5	87.8			91.4
Minimum in Shade .....				50.8	47.0	45.7			41.0
Temperature of Dew Point .....				51.7	54.6	52.3			56.3
<b>Hygrometrical condition of the Atmosphere.</b>				GRS.	GRS.	GRS.			GRS.
Degree of Humidity (Saturation—1,000).....				0.666	0.734	0.695			0.755
Prevailing Winds .....				W,NW	SW	W,NW			NW,N
Rain .....				....	....	....			....
<b>Ozonometer.</b>									
Moffat .....				....	1.29	1.57			....
Schonbein .....				....	0.29	....			....



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, JULY 24, 1869.

No. 469.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, July the 24th, 1441 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1400, and in the corresponding week of last year it was 1884. The deaths in public practice during the week amounted to 51, being in the proportion of 1 death to every 28 cases.

Small-Pox which has been prevalent in Manchester and Salford for many months is declining, the numbers for the last three weeks being 12, 10, and 3,—1 of the 3 cases occurred in Manchester and the remaining 2 in Salford.

There is this week a slight rise in the cases of Measles, 18 being returned instead of 12. This disease continues to be generally distributed over the several districts.

Scarlatina still holds its ground; this week the cases have risen from 14 to 20. In the corresponding week of last year the number was 48.

There is an improvement under Whooping-Cough, the number of cases having fallen from 9 to 5.

The most unsatisfactory return is that of Diarrhœa and Dysentery; 137 cases occurred during the week in public practice, being 37 more than in the preceding return. This disease is however by no means so prevalent as it was last summer. In the corresponding week of last year there were 367 cases.

The fever return is not so satisfactory as it was last week, 27 cases were observed. Fourteen were assigned to Continued Fever, 6 to Typhus, and 7 to Typhoid Fever.

The cases of Bronchitis and other acute chest diseases have fallen from 150 to 132.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

This week 294 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. The high rate of mortality of the week was caused by an increase in the number of deaths from Diarrhœa, Diseases of the Lungs, and other diseases not classified.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 66.0°; at the Salford Observatory it was 64.9°; at Eccles 64.6°; and at Old Trafford, 65.4°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS  
*New Cases of Disease coming under Treatment*

(1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9) {	(13) Mr. H. RUNCORN,
(2) „ J. BROADBENT,	(6) Dr. LEDWARD,	(10) { Mr. W. H. CARRUTHERS,	(14) „ W. M. MACCAL
(3) „ EDWARD MEACHAM,	(7) Mr. J. WESTMORELAND,	(11) { „ J. PORTER,	(15) „ J. OGDEN FLEET
(4) „ JOHN WALSH.	(8) „ J. P. SLEIGHTHOLME,	(12) { „ C. CURRIE RITCHIE,	(16) Dr. A. C. CLARKE,

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse, and are then reported twice over, this fact has several times been noticed.



ANITARY ASSOCIATION.

ONS OF MANCHESTER AND ADJOINING DISTRICTS  
e Week ending the 24th day of July, 1869.

SALFORD.					HULME.			CHORLTON.		ARDWICK	PENDLETON & PENDLEBURY.					DEATHS.
1,329 .....					477.....			646...		508.	2650.....			Area in Statute Acres.		
70,967. ....					68,209. ..			44,850..		21739	24,448 .....			Population in 1861.		
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's									
17	18	19	20	21	22	23	24	25	26	27	28	29				
..	..	..	2	..	..	..	..	..	..	..	..	..	3	3	Small-pox .....	..
1	1	..	5	..	1	.	..	..	2	..	1	..	18	21	Measles .....	1
..	..	..	7	..	2	..	..	3	2	..	..	..	20	48	Scarlet Fever.....	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	Diphtheria .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	5	3	Whooping-cough ....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..
1	..	..	5	8	1	1	..	4	3	..	..	10	134	360	Diarrhœa .....	2
1	..	..	..	..	..	..	..	..	..	..	..	..	3	7	Dysentery .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Malignant Cholera ..	..
..	..	..	..	..	1	..	1	..	1	..	..	..	10	6	Erysipelas .....	..
..	3	3	3	..	..	..	..	..	..	..	3	..	14	20	Continued Fever ....	..
..	..	..	1	..	..	..	..	..	..	..	..	1	6	28	Typhus .....	..
..	..	..	1	..	..	..	..	..	..	..	1	..	7	9	Enteric or Typhoid ..	..
..	1	..	6	..	..	..	..	2	1	..	..	1	32	39	Febricula .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	Ague .....	..
..	..	..	..	..	..	..	1	..	..	..	..	..	17	10	Rheumatic Fever ....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Puerperal Fever.....	..
4	..	..	30	3	1	2	1	3	1	2	1	6	107	106	Bronchitis & Catarrh	5
..	5	..	..	..	..	1	..	..	..	..	..	..	8	7	Influenza .....	..
..	.	..	6	..	2	..	1	..	..	1	..	..	17	7	Pleurisy & Pneumonia.	1
..	..	..	10	..	1	..	..	..	2	..	2	8	70	65	Phthisis .....	13
..	..	..	6	1	..	1	..	2	..	..	..	3	35	53	Constitutional Syphilis	1
10	..	5	64	1	4	3	8	11	21	2	16	60	615	306	All other diseases ....	27
..	4	..	73	..	..	..	..	..	29	..	33	1	320	280	Accidents .....	..
17	14	8	219	13	13	8	12	25	62	5	57	90	1441	1884	TOTAL .....	51

debted for the annexed Returns.

(17) Dr. T. M. JOHNSON,	(22) Mr. S. WOODCOCK,	(26) Mr. W. C. BARNISH,
(18) „ JAMES CRAN.	(23) Dr. ALEX. WILSON,	(27) „ J.V.L.WESTMACOTT,
(19)	(24) Mr. H. M.WILLIAMSON.	(28) „ R. P. O. GORMAN,
(20) Mr. A. VEITCH	(25) „ JOSEPH FOSTER,	(29) „ GEORGE CLEMENTS.
(21) Dr. BRADDON,		

e report of the Association, and has, as far as practicable, been taken into account in the conclusion



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tiptle.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	..	4	1	..	..	1	2	1	1	..	..	10	8
Whooping-cough.....	..	..	..	..	..	..	..	..	..	..	1	2	3
Scarlatina .....	2	2	2	..	..	..	..	1	1	1	..	8	49
Diarrhoea .....	9	7	9	8	5	8	4	1	1	3	2	57	98
Fever .....	1	2	..	..	..	..	1	..	1	2	2	9	13
Diseases of the Lungs	7	14	9	4	8	2	5	1	7	14	1	72	39
Other causes.....	19	15	18	7	5	14	12	6	14	18	8	136	127
TOTAL NO. OF DEATHS.	38	44	39	19	18	25	24	10	25	38	14	294	337
TOTAL NO. OF BIRTHS.	31	37	19	9	8	47	29	23	23	22	20	268	330

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 1st May.	4 Weeks ending 29th May.	4 Weeks ending 26th June.	TOTAL.	DISEASES.	5 Weeks ending 1st May.	4 Weeks ending 29th May.	4 Weeks ending 26th June.	TOTAL
5	10	7	22	..... Small-pox .....	80	47	48	175
25	32	24	81	..... Measles .....	133	82	82	297
46	33	46	125	..... Scarlet Fever.....	85	54	60	199
1	5	7	13	..... Diphtheria .....	1	..	..	1
123	70	118	311	..... Whooping-cough .....	11	19	29	59
4	2	2	8	..... Croup .....	..	1	3	4
341	206	338	885	..... Diarrhoea .....	183	132	159	474
..	..	2	2	..... Dysentery .....	5	1	6	12
..	..	..	..	..... Malignant Cholera.....	..	..	1	1
32	29	18	79	..... Erysipelas .....	25	22	14	61
14	11	12	37	..... Continued Fever .....	59	47	41	147
..	..	..	..	..... Typhus .....	97	51	57	205
5	1	4	10	..... Enteric or Typhoid .....	36	29	12	77
98	40	47	185	..... Febricula .....	193	114	169	476
..	1	4	5	..... Ague .....	..	..	1	1
75	47	34	156	..... Rheumatic Fever.....	71	65	73	209
1	..	..	1	..... Puerperal Fever.....	..	..	1	1
1199	613	560	2372	..... Bronchitis and Catarrh .....	1027	669	643	2339
10	6	4	20	..... Influenza.....	9	1	4	14
43	34	37	114	..... Pleurisy and Pneumonia .....	102	72	73	247
139	84	92	315	..... Phthisis.....	399	227	268	894
17	16	23	56	..... Constitutional Syphilis .....	152	116	122	390
4746	3322	3585	11653	....Accidents, and all other Diseases.....	4988	3579	3924	12491
6924	4562	4964	16450	TOTAL	7656	5328	5790	18774

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Salford Meteorologi. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Height of barometer cistern above sea level.....	108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.
<b>Barometer.</b> Mean @ 32° F., and reduced to sea level.....	INS. 30.032	INS. 30.039	INS. 30.032	INS.	INS.	INS. 30.030
Highest.....	30.085	30.156	30.085			30.210
Lowest .....	29.885	29.864	29.885			29.966
Range .....	0.200	0.292	0.200			0.244
<b>Temperature.</b> Adopted Mean .....	64.9	65.4	64.6			66.9
Range for Week .....	27.0	38.4	31.0			35.0
Daily Range .....	16.4	26.0	21.3			24.9
Maximum in Shade .....	81.9	89.4	81.9			85.2
Minimum in Shade .....	54.9	51.0	50.9			50.2
Temperature of Dew Point .....	54.8	55.2	54.0			58.1
<b>Hygrometrical condition of the Atmosphere.</b> Degree of Humidity (Saturation—1,000).....	GRS. 0.684	GRS. 0.704	GRS. 0.686	NO RETURN.	NO RETURN.	GRS. 0.735
Prevailing Winds .....	SW	SW	SW			SW
Rain .....	0.065	0.066	0.045			0.035
<b>Ozonometer.</b> Moffat .....	....	1.28	0.71			....
Schonbein .....	....	0.29	....			....



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, JULY 31, 1869.

No. 470.

#### DISEASES.—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, July the 31st, 1532 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1441, and in the corresponding week of last year it was 1843. The deaths in public practice during the week amounted to 52, being in the proportion of 1 death to every 29 cases.

Small-Pox remains much the same as it was last week, 4 cases being returned instead of 3. Two of these cases occurred in Manchester and the other 2 in Salford.

There is a slight decline in the cases of Measles, the number having fallen from 18 to 15. This disease continues to be pretty generally distributed over the several districts.

There is a decrease of 3 in the number of Scarlatina cases—17 were observed during the week. In the corresponding week of last year the number was 44.

The cases of Whooping-Cough are twice as numerous as in the preceding week. Eight of the 12 cases were treated at the Clinical Hospital.

The fever return is the same as that of the preceding week. Eleven of the 27 cases were assigned to Continued Fever, 14 to Typhus, and 2 to Typhoid Fever.

The cases of Diarrhoea and Dysentery have risen from 137 to 177. Seventy-two of the cases were treated at St. Mary's and the Clinical Hospitals. In the corresponding week of last year the number was 340.

Bronchitis and other acute chest diseases continue to be unusually prevalent for the season, 145 cases were observed during the week, being an increase of 13 upon the previous return. In the corresponding week of last year the number was 105.

#### DEATHS.—*The Number Registered in Manchester and Salford, and their Causes.*

This week 304 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Ninety-three deaths were caused by Diarrhoea, 51 by Diseases of the Lungs, and 9 each by Measles and Scarlatina.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 64.0°; at the Salford Observatory it was 60.8°; at Eccles 60.2°; and at Old Trafford, 61.7°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



MANCHESTER AND SALE

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment During the

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	,, ,, 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 8	Workhouse. 7	ROYAL INFIRMARY.						CHILDREN	
									In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	City Gaol 15
Small-pox .....	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..
Measles .....	1	..	..	1	1	..	3	..	..	..	..	1	2	2	..	..
Scarlet Fever .....	..	1	1	..	..	..	2	..	..	..	..	..	..	1	3	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	1	..	..	..	..	1	..	..	..	..	..	..	..	8	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea .....	4	7	3	6	7	7	34	3	..	2	1	..	1	42	30	..
Dysentery .....	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Malignant Cholera .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	..
Continued Fever .....	..	..	3	..	..	..	3	..	..	..	..	..	..	..	..	..
Typhus .....	..	..	..	..	..	1	1	2	4	..	..	2	2	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Febricula .....	..	..	..	..	..	2	2	2	..	1	..	1	..	4	1	..
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	1	1	1	..	..	2	..	..	..
Puerperal Fever .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	..	1	..	1	2	3	7	4	2	17	1	1	1	4	8	..
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia .....	..	..	..	..	..	..	..	1	1	1	..	..	2	..	1	..
Phthisis .....	..	2	..	..	1	1	5	6	..	26	..	3	..	4	..	..
Constitutional Syphilis .....	a1	..	..	..	..	..	..	8	..	4	..	..	..	..	..	..
All other Diseases .....	5	4	8	1	6	14	38	79	24	174	8	5	11	55	73	..
Accidents .....	..	1	..	..	..	1	2	4	19	128	..	1	..	..	..	..
TOTAL .....	12	17	15	9	17	29	99	111	53	354	11	14	21	112	124	18

a Removed to Workhouse.

Medical Officers to whom the Association

- (1) Mr. R. M. MANN.

(2) „ J. BROADBENT,

(3) „ EDWARD MEACHAM,

(4) „ JOHN WALSH.
- (5) Mr. OCTAVIUS DEAN,

(6) Dr. LEDWARD,

(7) Mr. J. WESTMORELAND,

(8) „ J. P. SLEIGHTHOLME,
- (9)

(10) } Mr. W. H. CARRUTHERS,

(11) } „ J. PORTER,

(12) } „ C. CURRIE RITCHIE,
- (13) Mr. H. RUNCORN,

(14) „ W. M. MACCA

(15) „ J. OGDEN FLE

(16) Dr. A. C. CLARKI

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



SANITARY ASSOCIATION.

IONS OF MANCHESTER AND ADJOINING DISTRICTS  
ending the 31st day of July, 1869.

SALFORD.					HULME.			CHORLTON.		ARDWICK.		PENDLETON & PENDLEBURY.							DEATHS.	
..... 1,329 .....					.... 477. ....			.. 646. ...		508.		..... 2650.....					Area in Statute Acres.			
..... 70,967. ....					.. 68,209. ..			.. 44,850..		21739		.....24,448.....					Population in 1861.			
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.		Poor Law District.		Ardwick & Ancoats Dispensary.		Chorlton Union Workhouse.		Total.		Corresponding Week last Year.		
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.					
17	18	19	20	21	22	23	24	25	26	27	28	29								
..	..	..	2	..	..	..	..	..	..	..	..	..	4	2	Small-pox .....					
..	..	..	4	..	1	.	..	..	1	..	1	..	15	15	Measles .....					
..	..	..	4	..	..	..	..	..	6	1	..	..	17	44	Scarlet Fever.....					
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....					
..	..	..	2	..	..	..	..	..	1	..	..	..	12	2	Whooping-cough ....					
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Croup .....					
7	3	..	9	6	..	1	..	6	9	1	..	11	176	340	Diarrhœa .....					
..	..	..	..	..	..	..	..	..	..	..	..	..	1	17	Dysentery .....					
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..					
..	..	..	..	..	..	..	..	..	1	..	..	..	3	3	Erysipelas .....					
..	..	3	4	..	..	..	1	..	..	..	..	..	11	25	Continued Fever ....					
..	..	..	1	..	..	..	..	1	..	..	..	..	14	35	Typhus .....					
1	..	..	..	..	..	..	..	..	..	..	1	..	2	7	Enteric or Typhoid ..					
..	..	..	5	..	..	..	2	1	2	..	..	1	25	47	Febricula .....					
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....					
..	..	..	..	2	..	1	..	..	..	..	..	..	9	6	Rheumatic Fever ....					
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....					
1	2	..	37	3	2	2	2	5	7	4	5	13	131	94	Bronchitis & Catarrh					
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	Influenza .....					
1	..	..	5	..	..	..	1	..	1	..	..	..	14	9	Pleurisy & Pneumonia.					
3	1	..	10	..	..	..	..	1	3	..	2	5	69	62	Phthisis .....					
..	..	..	7	..	..	..	..	3	..	..	2	4	30	54	Constitutional Syphilis					
11	17	5	66	3	4	9	9	18	22	5	13	67	739	752	All other diseases ....					
..	..	..	68	..	1	1	..	3	18	..	13	3	261	326	Accidents .....					
24	23	8	223	14	8	14	15	38	71	11	37	104	1532	1843	TOTAL .....					

indebted for the annexed Returns.

- (17) Dr. T. M. JOHNSON,  
(18) „ JAMES CRAN.  
(19)  
(20) Mr. A. VEITCH  
(21) Dr. BRADDON,

(22) Mr. S. WOODCOCK,  
(23) Dr. ALEX. WILSON,  
(24) Mr. H. M. WILLIAMSON.  
(25) „ JOSEPH FOSTER,

(26) Mr. W. C. BARNISH,  
(27) „ J. V. L. WESTMACOTT,  
(28) „ R. P. O. GORMAN,  
(29) „ GEORGE CLEMENTS.

the report of the Association, and has, as far as practicable, been taken into account in the conclusion  
own from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomson.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnsbp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	2	..	..	..	..	..	2	..
Measles .....	1	2	..	..	2	1	..	..	..	3	..	9	8
Whooping-cough.....	..	1	..	..	..	..	..	..	..	..	..	1	3
Scarlatina .....	3	3	..	..	1	..	..	..	..	2	..	9	28
Diarrhœa .....	19	14	4	16	3	10	9	..	4	14	6	93	87
Fever .....	1	..	..	1	..	..	1	1	..	..	..	4	19
Diseases of the Lungs	14	7	5	4	3	1	3	1	2	9	2	51	41
Other causes.....	15	15	13	10	13	9	14	5	14	20	7	135	139
TOTAL NO. OF DEATHS.	53	42	22	25	22	23	27	7	20	48	15	304	325
TOTAL NO. OF BIRTHS.	46	41	15	15	24	32	39	13	38	18	25	306	301

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 1st May.	4 Weeks ending 29th May.	1 Weeks ending 26th June.	TOTAL.	DISEASES.	5 Weeks ending 1st May.	4 Weeks ending 29th May.	1 Weeks ending 26th June.	TOTAL
5	10	7	22	..... Small-pox .....	80	47	48	175
25	32	24	81	..... Measles .....	133	82	82	297
46	33	46	125	..... Scarlet Fever.....	85	54	60	199
1	5	7	13	..... Diphtheria .....	1	..	..	1
123	70	118	311	..... Whooping-cough .....	11	19	29	59
4	2	2	8	..... Croup .....	..	1	3	4
341	206	338	885	..... Diarrhœa .....	183	132	159	474
..	..	2	2	..... Dysentery .....	5	1	6	12
..	..	..	..	..... Malignant Cholera.....	..	..	1	1
32	29	18	79	..... Erysipelas .....	25	22	14	61
14	11	12	37	..... Continued Fever .....	59	47	41	147
..	..	..	..	..... Typhus .....	97	51	57	205
5	1	4	10	..... Enteric or Typhoid .....	36	29	12	77
98	40	47	185	..... Febricula .....	193	114	169	476
..	1	4	5	..... Ague .....	..	..	1	1
75	47	34	156	..... Rheumatic Fever.....	71	65	73	209
1	..	..	1	..... Puerperal Fever .....	..	..	1	1
1199	613	560	2372	..... Bronchitis and Catarrh .....	1027	669	643	2339
10	6	4	20	..... Influenza.....	9	1	4	14
43	34	37	114	..... Pleurisy and Pneumonia .....	102	72	73	247
139	84	92	315	..... Phthisis.....	399	227	268	894
17	16	23	56	..... Constitutional Syphilis .....	152	116	122	390
4746	3322	3585	11653	.... Accidents, and all other Diseases.....	4988	3579	3924	12491
6924	4562	4964	16450	TOTAL	7656	5328	5790	18774

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Salford Meteorolog. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Height of barometer cistern above sea level.....	108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.
<b>Barometer.</b>	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....	29.885	29.877	29.885			29.864
Highest.....	29.919	29.935	29.919			30.002
Lowest .....	29.687	29.714	29.687			29.752
Range .....	0.232	0.221	0.232			0.250
<b>Temperature.</b>						
Adopted Mean .....	60.8	61.7	60.2			63.4
Range for Week .....	23.8	31.0	30.7			38.2
Daily Range.....	13.7	19.6	17.1			21.6
Maximum in Shade ,.....	72.8	76.0	74.7			77.8
Minimum in Shade .....	49.0	45.0	44.0			39.6
Temperature of Dew Point .....	50.5	53.1	51.6			55.1
<b>Hygrometrical condition of the Atmosphere.</b>						
Degree of Humidity (Saturation—1,000).....	GRS. 0.686	GRS. 0.730	GRS. 0.730	NO RETURN.	NO RETURN.	GRS. 0.749
Prevailing Winds .....	W, SW	S, SW	W, SW			SW
Rain .....	0.538	0.565	0.596			0.392
<b>Ozonometer.</b>						
Moffat .....	....	2.71	2.00			....
Schonbein .....	....	0.57	....			....



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, AUGUST 7, 1869.

No. 471.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, August the 7th, 1492 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1532, and in the corresponding week of last year it was 1844. The deaths in public practice during the week amounted to 52, being in the proportion of 1 death to every 28 cases.

The decrease reported in the cases of Small-Pox in the return for the week ending on July the 24th, has given place to a slight but steady increase in the return of this disease,—the numbers for the last three weeks being 3, 4, and 6. This disease is still confined to Manchester and Salford; five of the cases occurred in the former and 1 in the latter Township.

There is a decided decline in the cases of Measles, the numbers for the last three weeks being 18, 14, and 12 respectively. Five of the 12 cases occurred in Manchester, 5 in Salford, and 2 in Hulme.

There is also a marked improvement under Scarlatina, the numbers for the last three weeks being 20, 17, and 15. Eight of the 15 cases occurred in Manchester, 4 in Salford, and 3 in Chorlton.

Whooping-Cough remains much the same as in the previous week, 11 cases being returned instead of 12.

The fever return is not satisfactory, the number of cases having risen from 27 to 33. Nine of these were assigned to Continued Fever, 19 to Typhus, and 5 to Typhoid Fever.

Diarrhœa and Dysentery are increasing in prevalency, the number of cases has risen from 177 to 206. In the corresponding week of last year the number was 384.

There is a slight decrease in the cases of Bronchitis and other acute chest diseases, 141 being returned instead of 145.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

This week 286 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Ninety-four deaths were caused by Diarrhœa, 49 by Diseases of the Lungs, 6 by Fever, 5 each by Scarlatina and Whooping-Cough, and 4 by Measles.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 59·8°; at the Salford Observatory it was 56·8°; at Eccles 56·6°; and at Old Trafford, 57·0°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



# MANCHESTER AND SALES

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC New Cases of Disease coming under Treatment D

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	,, ,, 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	Workhouse. 7	ROYAL INFIRMARY.						CHILDREN	
									In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	City Gaol. 15
Small-pox .....	..	1	..	1	..	..	2	2	..	..	b1	..	..	..	..	..
Measles .....	..	2	1	..	..	1	4	..	..	..	..	..	..	..	..	1
Scarlet Fever .....	..	..	3	..	..	..	3	..	..	..	..	2	1	1	1	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	7	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	1	6	2	1	8	3	21	2	..	16	..	..	..	37	33	..
Dysentery .....	..	..	..	..	..	..	..	..	..	3	1	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..
Continued Fever.....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Typhus .....	..	..	..	..	a1	..	1	2	5	..	b1	3	b1	..	..	..
Enteric or Typhoid .....	..	a1	..	..	..	..	1	1	..	..	..	..	..	..	..	..
Febricula.....	1	..	..	..	..	2	3	1	..	..	..	..	1	6	..	..
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	..	..	2	1	..	3	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	1	2	..	..	1	4	8	6	..	30	1	1	2	..	7	3
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	..	..	..	..	..	1	1	..	1	..	..	..	..	..	3	..
Phthisis .....	..	..	..	..	1	..	1	7	..	32	1	4	2	2	..	..
Constitutional Syphilis .....	..	..	..	..	..	..	..	10	..	3	..	..	..	1	1	1
All other Diseases .....	12	5	11	11	8	7	54	42	17	142	3	8	4	62	70	5
Accidents .....	1	..	..	..	..	2	3	8	12	111	1	..	2	..	..	..
TOTAL .....	16	17	17	13	19	21	103	82	35	339	10	18	16	110	122	13

a Removed to Workhouse.

b Removed to Royal Infirmary.

Medical Officers to whom the Association

(1) Mr. R. M. MANN.  
(2) „ J. BROADBENT,  
(3) „ EDWARD MEACHAM,  
(4) „ JOHN WALSH.

(5) Mr. OCTAVIUS DEAN,  
(6) Dr. LEDWARD,  
(7) Mr. J. WESTMORELAND,  
(8) „ J. P. SLEIGHTHOLME,

(9) }  
(10) } Mr. W. H. CARRUTHERS,  
(11) } „ J. PORTER,  
(12) } „ C. CURRIE RITCHIE,

(13) Mr. H. RUNCORN,  
(14) „ W. M. MACCA  
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N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

## REPORTS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 7th day of August, 1869.

SALFORD.					HULME.			CHORLTON.		ARDWICK.	PENDLETON & PENDLEBURY.				
..... 1,329 .....					..... 477.....			.. 646...		508.	..... 2650.....			Area in Statute Acres.	
..... 70,967. ....					.. 68,209. ..			.. 44,850..		21739	..... 24,448 .....			Population in 1861.	
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS										
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DEATHS.
17	18	19	20	21	22	23	24	25	26	27	28	29			
..	..	..	1	..	..	..	..	..	..	..	..	..	6	..	Small-pox .....
2	..	..	3	..	1	1	..	..	..	..	..	..	12	14	Measles .....
..	..	..	4	..	..	..	..	..	3	..	..	..	15	26	Scarlet Fever.....
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....
..	..	..	..	..	..	..	..	..	3	..	..	..	11	3	Whooping-cough ....
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Croup .....
8	1	..	12	7	6	5	3	5	14	..	3	20	195	373	Diarrhœa .....
1	..	..	1	..	..	..	..	2	..	..	..	..	11	11	Dysentery .....
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..
..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	Erysipelas .....
..	..	5	2	..	..	..	..	..	1	..	..	..	9	19	Continued Fever ....
..	1	..	..	..	1	..	..	..	..	..	..	4	19	21	Typhus .....
1	..	..	1	..	..	..	..	1	..	..	..	..	5	8	Enteric or Typhoid ..
4	..	..	3	..	..	2	2	3	5	..	..	..	31	43	Febricula .....
1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	Ague .....
..	..	..	..	..	..	..	..	..	..	..	..	..	6	8	Rheumatic Fever ....
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....
2	3	..	28	1	..	2	5	..	5	2	2	14	124	83	Bronchitis & Catarrh
..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	Influenza .....
4	..	..	6	1	..	..	..	..	..	..	..	..	17	10	Pleurisy & Pneumonia.
1	1	1	9	..	1	1	..	..	2	..	4	5	74	60	Phthisis .....
..	..	..	7	..	..	1	..	1	..	..	2	3	30	61	Constitutional Syphilis
..	14	27	73	2	3	4	6	11	34	9	15	65	683	823	All other diseases ....
..	2	..	54	..	..	..	3	3	16	1	24	2	242	268	Accidents .....
24	22	33	204	11	12	16	19	26	83	12	50	113	1492	1844	TOTAL .. ...

Indebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,	(22) Mr. S. WOODCOCK,	(26) Mr. W. C. BARNISH,
(18) „ JAMES CRAN.	(23) Dr. ALEX. WILSON,	(27) „ J.V.L. WESTMACOTT,
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(21) Dr. BRADDON,		

The report of the Association, and has, as far as practicable, been taken into account in the conclusion drawn from the weekly returns.



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Small Pox .....	..	..	..	..	..	2	..	..	..	..	..	2	2
Measles .....	..	1	..	1	..	1	..	..	..	1	..	4	6
Whooping-cough.....	..	2	1	..	..	..	..	..	1	..	1	5	1
Scarlatina .....	2	..	..	..	1	1	1	..	..	..	..	5	31
Diarrhœa .....	19	21	4	2	5	8	12	..	7	15	1	94	114
Fever .....	..	..	2	..	..	1	2	..	..	1	..	6	24
Diseases of the Lungs	5	9	2	3	4	2	..	..	6	16	2	49	39
Other causes.....	19	7	8	7	8	9	13	10	13	19	8	121	145
TOTAL NO. OF DEATHS.	45	40	17	13	18	24	28	10	27	52	12	286	362
TOTAL NO. OF BIRTHS.	37	31	15	15	15	45	41	23	31	50	25	328	322

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

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4	2	2	8	..... Croup .....	..	1	3	4
341	206	338	885	..... Diarrhœa .....	182	132	159	474
..	..	2	2	..... Dysentery .....	5	1	6	12
..	..	..	..	..... Malignant Cholera.....	..	..	1	1
32	29	18	79	..... Erysipelas .....	25	22	14	61
14	11	12	37	..... Continued Fever .....	59	47	41	147
..	..	..	..	..... Typhus .....	97	51	57	205
5	1	4	10	..... Enteric or Typhoid .....	36	29	12	77
98	40	47	185	..... Febricula .....	193	114	169	476
..	1	4	5	..... Ague .....	..	..	1	1
75	47	34	156	..... Rheumatic Fever.....	71	65	73	209
1	..	..	1	..... Puerperal Fever.....	..	..	1	1
1199	613	560	2372	..... Bronchitis and Catarrh .....	1027	669	643	2339
10	6	4	20	..... Influenza.....	9	1	4	14
43	34	37	114	..... Pleurisy and Pneumonia .....	102	72	73	247
139	84	92	315	..... Phthisis.....	399	227	268	894
17	16	23	56	..... Constitutional Syphilis .....	152	116	122	390
4746	3322	3585	11653	.... Accidents, and all other Diseases.....	4988	3579	3924	12491
6924	4562	4964	16450	TOTAL	7656	5328	5790	18774

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Salford Meteorolog. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Height of barometer cistern above sea level.....	108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.
<b>Barometer.</b>	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....	29.984	29.992	29.984			29.977
Highest.....	30.325	30.298	30.325			30.375
Lowest .....	29.621	29.620	29.621			29.702
Range .....	0.704	0.678	0.704			0.673
<b>Temperature.</b>						
Adopted Mean .....	56.8	57.0	56.6			59.5
Range for Week .....	18.5	26.2	25.2			30.9
Daily Range.....	13.4	17.4	16.7			20.6
Maximum in Shade .....	68.5	72.0	70.3			72.0
Minimum in Shade .....	50.0	45.8	45.1			41.1
Temperature of Dew Point .....	48.4	51.0	48.8			51.6
<b>Hygrometrical condition of the Atmosphere.</b>	GRS.	GRS.	GRS.			GRS.
Degree of Humidity (Saturation—1,000).....	0.734	0.804	0.750	NO RETURN.	NO RETURN.	0.753
Prevailing Winds .....	W, WSW	S, SW	W, WSW			W, NW
Rain .....	1.819	1.537	1.829			1.364
<b>Ozonometer.</b>						
Moffat .....	....	1.86	2.42			....
Schonbein .....	....	0.43	....			....



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, AUGUST 14, 1869.

No. 472.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, August the 14th, 1490 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1492, and in the corresponding week of last year it was 1765. The deaths in public practice during the week amounted to 61, being in the proportion of 1 death to every 24 cases.

The present return is in many respects satisfactory.

Small-Pox continues to be restricted to the two townships of Manchester and Salford; 4 cases were observed during the week, being 2 less than in the preceding week.

The decline in Measles reported last week still continues, 8 cases being returned instead of 12; 6 of these occurred in Manchester and 2 in Salford, the other districts being free from the disease.

The return of Scarlatina cases is the same as that of the preceding week. The 15 cases that were observed were thus distributed:—7 in Manchester, 4 in Salford, 1 in Hulme, and 3 in Chorlton. In the corresponding week of last year there were 37 cases.

There is a marked decline in the cases of Whooping-Cough, the number having fallen from 11 to 2.

A very satisfactory feature in the return is the decrease under Diarrhoea; 166 cases were observed during the week, being 40 less than in the previous return. In the corresponding week of last year 270 cases of Diarrhoea were returned.

The fever return is unsatisfactory; 41 cases occurred during the week in public practice alone. Fourteen were assigned to Continued Fever, 18 to Typhus, and 9 to Typhoid Fever.

The cases of Bronchitis and other acute chest diseases have fallen from 141 to 122.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

This week 302 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Ninety-five deaths were caused by Diarrhoea, 41 by Diseases of the Lungs, 14 by Fever, 9 by Scarlatina, and 6 by Measles.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 58.5°; at the Salford Observatory it was 56.0°; and at Eccles 55.8°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS. New Cases of Disease coming under Treatment During the Year 1861.

MANCHESTER.																
Area in Statute Acres.....		Manchester Township 1,645 .....														
Population in 1861.....		,, ,, 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	Workhouse. 7	ROYAL INFIRMARY.					CHILDREN		
									In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	City Gaol. 15
Small-pox .....	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..
Measles .....	..	..	1	..	2	..	3	..	..	..	..	..	..	1	2	..
Scarlet Fever .....	..	..	1	..	..	..	1	..	..	..	..	2	2	2	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	7	7	2	1	..	6	23	4	..	1	..	3	1	33	23	4
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	1	1	1	..	..	..	2	..	..	..	..
Continued Fever.....	a1	..	1	..	a3	..	5	..	..	..	..	1	..	..	..	..
Typhus .....	..	..	..	..	..	..	..	7	1	..	..	..	1	..	..	..
Enteric or Typhoid .....	..	a1	..	..	..	..	1	1	1	..	..	..	..	..	..	..
Febricula.....	..	..	1	1	..	4	6	..	2	2	..	..	1	8	1	2
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	..	..	..	2	..	..	1	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	1	2	..	2	1	2	8	8	1	14	4	1	2	4	2	3
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	1	..	..	3	..	..	4	..	..	..	2	..	3	..	..	..
Phthisis .....	..	..	..	1	..	1	2	8	..	24	1	3	1	1	..	..
Constitutional Syphilis .....	3	..	..	..	..	1	4	9	..	1	..	..	..	2	1	2
All other Diseases .....	10	6	14	10	5	9	54	61	28	140	6	2	10	52	80	4
Accidents .....	2	1	..	..	..	2	5	2	23	108	1	..	..	..	..	..
TOTAL .....	25	17	20	18	11	26	117	103	56	290	16	14	21	105	110	15

a Removed to Workhouse.

Medical Officers to whom the Association

- |                       |                           |                            |                        |
|-----------------------|---------------------------|----------------------------|------------------------|
| (1) Mr. R. M. MANN.   | (5) Mr. OCTAVIUS DEAN,    | (9) }                      | (13) Mr. H. RUNCORN.   |
| (2) „ J. BROADBENT,   | (6) Dr. LEDWARD,          | (10) Mr. W. H. CARRUTHERS, | (14) „ W. M. MACCAL    |
| (3) „ EDWARD MEACHAM, | (7) Mr. J. WESTMORELAND,  | (11) „ J. PORTER,          | (15) „ J. OGDEN FLET   |
| (4) „ JOHN WALSH.     | (8) „ J. P. SLEIGHTHOLME, | (12) „ C. CURRIE RITCHIE,  | (16) Dr. A. C. CLARKE, |

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



ANITARY ASSOCIATION.

ONS OF MANCHESTER AND ADJOINING DISTRICTS  
Week ending the 14th day of August, 1869.

SALFORD.					HULME.			CHORLTON.		ARDWICK.	PENDLETON PENDLEBURY.					DEATHS.		
1,329 .....					477.....			646...		508.	2650.....			Area in Statute Acres.				
70,967. ....					68,209. ..			44,850..		21739	24,448 .....			Population in 1861.				
LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.		Poor Law District.		Ardwick & Ancoats Dispensary.		Chorlton Union Workhouse.	Total.		Corresponding Week last Year.	DISEASES.
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.						
17	18	19	20	21	22	23	24	25	26	27	28	29						
..	..	..	2	..	..	..	..	..	..	..	..	..	4	3	Small-pox .....		..	
..	..	..	2	..	..	..	..	..	..	..	..	..	8	9	Measles .....		..	
..	..	..	4	..	..	1	..	1	2	..	..	..	15	37	Scarlet Fever.....		..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....		..	
..	..	..	..	..	..	..	..	..	..	..	..	..	2	4	Whooping-cough ....		..	
..	..	..	2	..	..	..	..	..	..	..	..	..	2	..	Croup .....		..	
5	1	..	13	5	6	2	3	..	5	..	3	21	158	270	Diarrhœa .....		5	
2	..	..	3	..	..	..	2	..	..	..	1	..	8	6	Dysentery .....		..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Malignant Cholera ..		..	
..	..	..	..	..	..	..	..	..	1	..	1	..	6	5	Erysipelas .....		..	
..	..	..	7	..	..	..	..	..	..	..	1	..	14	22	Continued Fever ....		1	
1	..	..	3	..	..	..	..	2	1	..	..	2	18	34	Typhus .....		5	
3	..	..	..	..	..	..	..	..	1	..	1	..	9	18	Enteric or Typhoid ..		..	
2	1	..	5	..	..	..	..	1	5	..	2	1	39	52	Febricula .....		1	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....		..	
..	..	1	..	..	..	..	1	..	..	1	..	..	6	13	Rheumatic Fever ....		..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Puerperal Fever.....		..	
1	1	..	30	3	..	1	..	3	5	1	2	13	109	164	Bronchitis & Catarrh		3	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	Influenza .....		..	
..	..	..	3	..	..	..	..	..	1	..	..	..	13	14	Pleurisy & Pneumonia.		1	
2	1	..	9	..	1	..	..	1	2	..	2	11	71	56	Phthisis .....		14	
3	..	..	6	2	..	..	..	2	..	..	..	6	38	43	Constitutional Syphilis		..	
5	14	13	98	3	7	12	4	14	27	8	20	46	718	805	All other diseases ....		30	
1	..	..	67	1	..	1	..	1	17	..	19	5	252	264	Accidents .....		1	
25	18	14	254	14	14	17	10	25	67	10	52	105	1490	1765	TOTAL .....		61	

Debted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18) „ JAMES CRAN.  
(19)  
(20) Mr. A. VEITCH  
(21) Dr. BRADDON,

(22) Mr. S. WOODCOCK,  
(23) Dr. ALEX. WILSON,  
(24) Mr. H. M. WILLIAMSON.  
(25) „ JOSEPH FOSTER,

(26) Mr. W. C. BARNISH,  
(27) „ J. V. L. WESTMACOTT,  
(28) „ R. P. O. GORMAN,  
(29) „ GEORGE CLEMENTS.

report of the Association, and has, as far as practicable, been taken into account in the conclusion from the weekly returns.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomson.	Greengate Dis., Mr. Bowe.	Regent-rd. Dis., Mr. Tople.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tushp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	..	..	..	..	..	..	..	2
Measles .....	..	2	..	..	1	..	1	..	1	1	..	6	6
Whooping-cough.....	1	1	..	..	..	..	..	..	..	..	..	2	1
Scarlatina .....	1	1	2	..	1	1	..	1	..	1	1	9	31
Diarrhœa .....	19	12	1	11	4	15	9	2	5	15	2	95	111
Fever .....	1	2	4	1	..	1	4	..	..	1	..	11	21
Diseases of the Lungs	5	7	5	4	2	1	2	..	1	12	2	41	39
Other causes.....	19	14	15	4	4	16	16	13	16	20	4	135	145
<b>TOTAL NO. OF DEATHS.</b>	<b>46</b>	<b>39</b>	<b>27</b>	<b>20</b>	<b>12</b>	<b>34</b>	<b>26</b>	<b>16</b>	<b>23</b>	<b>50</b>	<b>9</b>	<b>362</b>	<b>362</b>
<b>TOTAL NO. OF BIRTHS.</b>	<b>41</b>	<b>40</b>	<b>13</b>	<b>12</b>	<b>11</b>	<b>30</b>	<b>20</b>	<b>26</b>	<b>30</b>	<b>53</b>	<b>20</b>	<b>296</b>	<b>322</b>

## Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
 Medical Officer of Health, John Whitmore, M.D.  
 Population in 1861, 161,639.

At Pauper, Charitable, and Public Institutions in  
 MANCHESTER and SALFORD.  
 Population in 1861, 390,915.

5 Weeks ending 1st May.	4 Weeks ending 29th May.	1 Weeks ending 26th June.	TOTAL.	DISEASES.	5 Weeks ending 1st May.	4 Weeks ending 29th May.	1 Weeks ending 26th June.	TOTAL
5	10	7	22	..... Small-pox .....	80	47	48	175
25	32	21	81	..... Measles .....	133	82	82	297
46	33	46	125	..... Scarlet Fever.....	85	54	60	199
1	5	7	13	..... Diphtheria .....	1	..	..	1
123	70	113	311	..... Whooping-cough .....	11	19	29	59
4	2	2	8	..... Croup .....	..	1	3	4
341	206	338	885	..... Diarrhœa .....	183	132	159	474
..	..	2	2	..... Dysentery .....	5	1	6	12
..	..	..	..	..... Malignant Cholera.....	..	..	1	1
32	29	18	79	..... Erysipelas .....	25	22	14	61
14	11	12	37	..... Continued Fever .....	59	47	41	147
..	..	..	..	..... Typhus .....	97	51	57	205
5	1	4	10	..... Enteric or Typhoid .....	36	29	12	77
93	40	47	185	..... Febricula .....	193	114	169	476
..	1	4	5	..... Ague .....	..	..	1	1
75	47	34	156	..... Rheumatic Fever.....	71	65	73	209
1	..	..	1	..... Puerperal Fever .....	..	..	1	1
1199	613	560	2372	..... Bronchitis and Catarrh .....	1027	639	643	2399
10	6	4	20	..... Influenza.....	9	1	4	14
43	34	37	114	..... Pleurisy and Pneumonia .....	102	72	73	247
139	84	92	315	..... Phthisis.....	399	227	263	889
17	16	23	56	..... Constitutional Syphilis .....	152	116	122	390
4746	3222	2585	11653	..... Accidents, and all other Diseases.....	4988	3579	3921	12491
6924	4562	4964	16450	<b>TOTAL</b>	<b>7656</b>	<b>5328</b>	<b>5790</b>	<b>18774</b>

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Salford Meteorolog. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH, Esq.	Wilmslow, J. THOMPSON, Esq.	Royton, J. HEAP, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Height of barometer cistern above sea level.....	108 ft.	123 ft.	145 ft.	251 ft.	544 ft.	43 ft.
<b>Barometer.</b>	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level.....	29.568		29.868			29.873
Highest.....	30.183		30.183			30.270
Lowest .....	29.495		29.495			29.600
Range .....	0.688		0.688			0.670
<b>Temperature.</b>						
Adopted Mean .....	56.0		55.8			59.2
Range for Week .....	20.7		22.4			23.1
Daily Range .....	11.2		13.4			14.7
Maximum in Shade .....	64.2		64.6			70.0
Minimum in Shade .....	43.5		42.2			46.9
Temperature of Dew Point .....	48.8		50.0			52.8
<b>Hygrometrical condition of the Atmosphere.</b>						
Degree of Humidity (Saturation—1,000).....	GRS. 0.765	NO RETURN.	GRS. 0.818	NO RETURN.	NO RETURN.	GRS. 0.798
Prevailing Winds .....	NW		NW			NW
Rain .....	0.937		1.215			0.612
<b>Ozonometer.</b>						
Moffat .....	....		3.42			....
Schonbein .....	....		....			....

August, 14. 1869.

THOMAS MACKERETH, Esq., F.R.A.S.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



## Manchester and Salford Sanitary Association.

## WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, AUGUST 21, 1869.

No. 473.

**DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, August the 21st, 1456 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1490, and in the corresponding week of last year it was 1684. The deaths in public practice during the week amounted to 48, being in the proportion of 1 death to every 30 cases.

The return for this week is unsatisfactory.

The cases of Small-Pox have risen from 4 to 12. Six of these occurred in Manchester, 5 in Salford, and 1 in Hulme.

There is a slight increase in the cases of Measles, 10 being returned instead of 8. This disease has been confined during the last fortnight to the townships of Manchester and Salford.

The cases of Scarlatina have declined from 15 to 12. Seven of these occurred in Manchester, 4 in Salford, and 1 in Chorlton. In the corresponding week of last year the number was 36.

The improvement in the return of Whooping-Cough reported last week has not been maintained, the number of cases having risen from 2 to 9; these were observed at St. Mary's and the Clinical Hospitals.

There is a decided decrease in the cases of Diarrhœa and Dysentery, 142 being returned instead of 166. In the corresponding week of last year the number was 211.

The fever return is not so high as it was in the preceding week. Thirty-six cases were observed during the week; 20 were assigned to Continued Fever, 11 to Typhus, and 5 to Typhoid Fever. In the corresponding week of last year the number of fever cases was 82.

The cases of Bronchitis and other acute chest diseases have risen from 122 to 147.

**DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

This week 253 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Seventy-three deaths were caused by Diarrhœa, 28 by Diseases of the Lungs, 13 by Fever, 7 by Scarlatina, and 6 by Measles.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 58.7°; at the Salford Observatory it was 57.8°; and at Eccles 57.3°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALM MALL, MANCHESTER.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.															
Area in Statute Acres .....		Manchester Township 1,645 .....													
Population in 1861 .....		" " 185,050 .....													
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 85	Workhouse. 7	ROYAL INFIRMARY.					CHILDREN	
									In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14
Small-pox .....	..	..	..	..	..	..	..	2	..	..	..	..	4	..	..
Measles .....	..	..	..	1	2	..	3	..	..	..	..	1	..	1	2
Scarlet Fever .....	..	..	2	..	..	..	2	..	..	1	..	1	..	1	2
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	3	6
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	1	2	2	3	..	2	10	4	1	6	1	1	1	39	25
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	..	..	1	..	1	..	1	..	..	..
Continued Fever.....	..	..	2	..	2	2	6	2	1	..	..	..	..	..	..
Typhus .....	..	1	..	..	..	..	1	4	..	..	..	..	2	..	..
Enteric or Typhoid .....	..	2	..	..	..	..	2	..	..	..	..	..	..	..	..
Febricula.....	2	..	..	..	1	..	3	2	1	3	..	..	1	12	..
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	3	1	1	1	1	1	8	6	..	17	..	4	6	2	10
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	..	..	..	..	..	4	4	2	1	1	..	..	2	..	3
Phthisis .....	..	..	1	..	..	..	1	4	..	27	2	2	3	1	..
Constitutional Syphilis .....	..	..	..	..	..	..	..	8	..	5	..	..	..	..	..
All other Diseases .....	10	9	5	6	2	9	41	40	27	97	5	5	3	73	89
Accidents .....	1	..	..	1	..	2	4	3	15	158	..	..	..	..	..
TOTAL .....	17	15	13	12	8	20	85	79	46	316	9	15	22	135	138

a Removed to Workhouse.

Medical Officers to whom the Association

- (1) Mr. R. M. MANN.

(2) „ J. BROADBENT,

(3) „ EDWARD MEACHAM,

(4) „ JOHN WALSH.
- (5) Mr. OCTAVIUS DEAN,

(6) Dr. LEDWARD,

(7) Mr. J. WESTMORELAND,

(8) „ J. P. SLEIGHTHOLME,
- (9) } Mr. W. H. CARRUTHERS,

(10) } „ J. PORTER,

(11) } „ C. CURRIE RITCHIE,

(12) }
- (13) Mr. H. RUNCO

(14) „ W. M. MAC

(15) „ J. OGDEN FI

(16) Dr. A. C. CLARK

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



*Week ending the 21st day of August, 1869.*

the report of the Association, and has, as far as practicable, been taken into account in the conclusion drawn from the weekly returns.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomson.	Greengate Dis., Mr. Bowel.	Regent-rd. Dis., Mr. Tiptle.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	..	1	..	..	1	..	6	1
Measles .....	4	..	..	..	..	..	1	..	..	1	..	3	14
Whooping-cough.....	..	..	..	..	1	..	..	..	2	..	..	7	2
Scarlatina .....	1	4	..	..	..	..	1	..	..	1	..	13	34
Diarrhœa .....	11	2	1	1	7	11	8	2	4	14	6	73	107
Fever .....	..	3	4	1	..	3	1	..	1	..	..	28	18
Diseases of the Lungs	3	2	10	1	2	3	2	..	1	3	1	28	33
Other causes.....	11	13	19	1	7	9	18	8	10	22	5	123	182
TOTAL NO. OF DEATHS.	30	30	34	4	17	26	31	10	18	41	12	253	396
TOTAL NO. OF BIRTHS.	51	42	22	13	12	47	36	24	33	50	19	349	364

## Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
 Medical Officer of Health, John Whitmore, M.D.  
 Population in 1861, 161,630.

At Pauper, Charitable, and Public Institutions in  
 MANCHESTER and SALFORD.  
 Population in 1861, 390,315.

5 Weeks ending 1st May.	4 Weeks ending 29th May.	1 Weeks ending 26th June.	TOTAL.	DISEASES.	5 Weeks ending 1st May.	4 Weeks ending 29th May.	1 Weeks ending 26th June.	TOTAL
5	10	7	22	..... Small-pox .....	80	47	48	175
25	32	21	81	..... Measles .....	133	82	82	297
46	33	46	125	..... Scarlet Fever.....	85	54	60	199
1	5	7	13	..... Diphtheria .....	1	..	..	1
123	70	118	311	..... Whooping-cough .....	11	19	29	59
4	2	2	8	..... Croup .....	..	1	3	4
341	206	338	885	..... Diarrhœa .....	183	132	159	474
..	..	2	2	..... Dysentery .....	5	1	6	12
..	..	..	..	..... Malignant Cholera.....	..	..	1	1
32	29	18	79	..... Erysipelas .....	25	22	14	61
14	11	12	37	..... Continued Fever .....	59	47	41	147
..	..	..	..	..... Typhus .....	97	51	57	205
5	1	4	10	..... Enteric or Typhoid .....	36	29	12	77
98	40	47	185	..... Febricula .....	193	114	169	476
..	1	4	5	..... Ague .....	..	..	1	1
75	47	34	156	..... Rheumatic Fever.....	71	65	73	209
1	..	..	1	..... Puerperal Fever.....	..	..	1	1
1199	613	560	2372	..... Bronchitis and Catarrh .....	1027	669	643	2339
10	6	4	20	..... Influenza .....	9	1	4	14
43	34	37	114	..... Pleurisy and Pneumonia .....	102	72	73	247
139	84	92	315	..... Phthisis.....	399	227	263	894
17	16	23	56	..... Constitutional Syphilis .....	152	116	122	390
4746	3322	3535	11653	....Accidents, and all other Diseases.....	4938	3579	3924	12491
6924	4562	4964	16450	TOTAL	7656	5328	5790	18774

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Salford Meteorologl. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq	Eccles, T. MACKERETH Esq	Wilmslow, J. T. THOMPSON, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Height of barometer cistern above sea level .....	108 ft.	123 ft.	145 ft.	251 ft.	43 ft.
<b>Barometer.</b>	INS.	INS.	INS.	INS.	INS.
Mean @ 32°F., and reduced to sea level .....	30.347		30.347		
Highest.....	30.335		30.335		
Lowest .....	30.249		30.249		
Range .....	0.086		0.086		
<b>Temperature.</b>					
Adopted Mean .....	57.8		57.3		
Range for Week .....	21.6		28.6		
Daily Range.....	14.9		20.0		
Maximum in Shade .....	70.6		73.5		
Minimum in Shade .....	49.0		44.9		
Temperature of Dew Point .....	52.4		53.0		
<b>Hygrometrical condition of the Atmosphere.</b>					
Degree of Humidity (Saturation—1,000).....	GRS. 0.824	NO RETURN.	GRS. 0.852	NO RETURN.	NO RETURN.
Prevailing Winds .....	W, WNW		W, WNW		
Rain .....	0.030		0.051		
<b>Ozonometer.</b>					
Moffat .....	....		0.42		
Schonbein .....	....		....		



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, AUGUST 28, 1869.

No. 474.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, August the 28th, 1442 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1456, and in the corresponding week of last year it was 1694. The deaths in public practice during the week amounted to 46, being in the proportion of 1 death to every 31 cases.

The present return is satisfactory.

Small-Pox has declined from 12 cases in the previous week to 2 in this one under notice. These were observed in the Townships of Manchester and Salford.

There is a decrease of 1 in the return of Measles,—9 cases were observed during the week. Seven occurred in Manchester and 2 in Salford.

The return of Scarlatina is the same as it was in the preceding week, 12 cases having occurred. Five were observed in Manchester, 4 in Salford, and 3 in Chorlton. In the corresponding week of last year the number was 55.

The number of cases of Whooping-Cough has risen from 9 to 10; 6 of these were treated at St. Mary's and the Clinical Hospitals, and 4 at the Chorlton Union Hospital.

There is a slight improvement in the return of Diarrhœa and Dysentery, the number of cases having fallen from 142 to 139.

There is a marked decrease in the number of fever cases, 27 being returned instead of 36. Eleven were assigned to Continued Fever, 7 to Typhus, and 9 to Typhoid Fever. In the corresponding week of last year the number was 100.

The cases of Bronchitis and other acute chest diseases have fallen in number from 147 to 114.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

This week 238 deaths were registered in the eleven districts which supply returns to the Sanitary Association. Sixty-two deaths were caused by Diarrhœa, 47 by Diseases of the Lungs, 8 by Scarlatina, and 5 by Measles.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 68·4°; at the Salford Observatory it was 64·2°; and at Eccles 64·8°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS.  
New Cases of Disease coming under Treatment During the Year 1861.

MANCHESTER.																
Area in Statute Acres.....		Manchester Township 1,645 .....														
Population in 1861.....		,, ,, 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	ROYAL INFIRMARY.						CHILDREN		
								Workhouse. 7	In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	City Gaol. 15
Small-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
Measles .....	..	1	..	3	..	2	6	..	..	..	..	..	..	..	1	..
Scarlet Fever .....	..	..	1	1	..	..	2	..	..	..	..	..	2	1	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	5	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	1	3	5	..	1	3	13	3	..	10	2	..	2	41	22	2
Dysentery .....	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..
Continued Fever.....	..	a1	..	..	..	1	2	..	..	..	..	..	..	1	..	..
Typhus .....	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	..	1	..	b1	..	..	..	..	..
Febricula.....	..	..	..	..	2	4	6	..	..	2	b1	1	2	5	..	2
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	..	1	1	1	1	..	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	..	2	..	..	1	1	4	9	..	12	..	3	1	2	8	3
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia.....	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..
Phthisis .....	..	..	..	2	..	..	2	6	..	22	2	1	4	4	..	..
Constitutional Syphilis .....	..	..	..	1	..	..	1	12	..	3	..	..	..	..	1	2
All other Diseases .....	14	4	6	9	..	12	45	58	24	156	3	2	8	46	94	7
Accidents .....	1	..	..	1	..	3	5	4	23	98	..	..	3	..	1	..
TOTAL .....	16	11	12	17	4	27	87	93	50	306	10	8	23	101	132	16

a Removed to Workhouse.

b Removed to Fever Ward, Royal Infirmary.

Medical Officers to whom the Association

- (1) Mr. R. M. MANN.

(2) „ J. BROADBENT,

(3) „ EDWARD MEACHAM,

(4) „ JOHN WALSH.
- (5) Mr. OCTAVIUS DEAN,

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(7) Mr. J. WESTMORELAND,

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- (9)

(10) Mr. W. H. CARRUTHERS,

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(12) „ C. CURRIE RITCHIE,
- (13) Mr. H. RUNCORN

(14) „ W. M. MACCA

(15) „ J. OGDEN FLE

(16) Dr. A. C. CLARKE

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

## REPORTS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 28th day of August, 1869.

SALFORD.					HULME.			CHORLTON.		ARDWICK.	PENDLETON PENDLEBURY.					DEATHS.					
..... 1,329 .....					..... 477.....			.. 646...		508.	..... 2650.....			Area in Statute Acres.							
..... 70,967. ....					.. 68,209. ..			.. 44,850..		21739	..... 24,448 .....			Population in 1861.							
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.		Poor Law District.		Ardwick & Ancoats Dispensary.		Chorlton Union Workhouse.		Total.		Corresponding Week last Year.		DISEASES.	
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.									
17	18	19	20	21	22	23	24	25	26	27	28	29									
..	..	1	..	..	..	..	..	..	..	..	..	..	2	2	Small-pox .....		..				
..	..	..	2	..	..	..	..	..	..	..	..	..	9	7	Measles .....		1				
..	..	..	4	..	..	..	..	2	1	..	..	..	12	55	Scarlet Fever.....		1				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....		1				
..	..	..	..	..	..	..	..	..	..	..	..	4	10	..	Whooping-cough ....		..				
..	..	..	2	..	..	..	..	..	..	..	..	..	2	..	Croup .....		..				
2	2	..	11	6	2	1	2	..	5	1	2	9	138	180	Diarrhoea .....		5				
..	..	..	..	..	..	..	..	..	..	..	..	..	1	8	Dysentery .....		..				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..		..				
..	..	..	1	..	..	..	..	..	1	..	..	..	4	7	Erysipelas .....		..				
..	..	3	3	..	..	..	..	..	..	..	2	..	11	46	Continued Fever ....		..				
..	..	..	1	..	..	..	..	2	..	..	..	3	7	28	Typhus .....		2				
1	..	..	2	..	1	..	..	..	2	..	..	..	9	26	Enteric or Typhoid ..		..				
..	..	..	4	..	..	1	..	..	7	..	1	1	34	52	Febricula .....		..				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Ague .....		..				
..	..	1	..	..	..	..	..	..	..	1	..	..	6	9	Rheumatic Fever ....		..				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....		..				
2	1	1	32	5	1	..	1	3	2	1	2	8	105	141	Bronchitis & Catarrh		3				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	Influenza .....		..				
..	..	..	5	..	..	..	..	..	1	..	1	1	9	13	Pleurisy & Pneumonia.		1				
1	4	2	12	..	..	..	1	..	4	..	2	5	74	59	Phthisis .....		9				
..	..	..	7	..	..	1	1	..	..	..	2	3	33	50	Constitutional Syphilis		3				
6	14	21	87	2	4	3	5	15	24	7	19	70	728	734	All other diseases ....		17				
..	1	..	75	..	..	..	..	1	10	..	26	1	248	270	Accidents .....		3				
12	22	29	248	13	8	6	10	23	57	10	57	105	1442	1694	TOTAL .....		46				

debited for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
 (18) „ JAMES CRAN.  
 (19)  
 (20) Mr. A. VEITCH  
 (21) Dr. BRADDON,

(22) Mr. S. WOODCOCK,  
 (23) Dr. ALEX. WILSON,  
 (24) Mr. H. M. WILLIAMSON.  
 (25) „ JOSEPH FOSTER,

(26) Mr. W. C. BARNISH,  
 (27) „ J. V. L. WESTMACOTT,  
 (28) „ R. P. O. GORMAN,  
 (29) „ GEORGE CLEMENTS.

The report of the Association, and has, as far as practicable, been taken into account in the conclusion drawn from the weekly returns.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. John.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bowler.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	1	3	2	2	2	2	2	2	1	2	1	1	7
Measles .....	2	3	2	2	2	2	2	2	1	1	1	2	2
Whooping-cough.....	2	2	2	2	1	1	1	2	2	2	2	8	33
Scarlatina .....	7	8	1	4	4	7	9	3	3	14	2	62	96
Diarrhœa .....	2	1	2	2	2	5	1	2	2	2	2	9	20
Fever .....	5	11	6	2	2	3	3	1	3	10	1	47	44
Diseases of the Lungs	13	18	10	8	6	7	12	4	7	14	5	104	149
Other causes.....													
TOTAL NO. OF DEATHS.	29	43	19	14	13	23	27	8	14	39	9	238	349
TOTAL NO. OF BIRTHS.	42	37	12	12	14	47	36	24	29	47	12	312	323

## Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
 Medical Officer of Health, John Whitmore, M.D.  
 Population in 1861, 161,680.

At Pauper, Charitable, and Public Institutions in  
 MANCHESTER and SALFORD.  
 Population in 1861, 390,815.

4 Weeks ending 29th May.	4 Weeks ending 26th June.	5 Weeks ending 31st July.	TOTAL.	DISEASES.	4 Weeks ending 29th May.	4 Weeks ending 26th June.	5 Weeks ending 31st July.	TOTAL
10	7	3	20	..... Small-pox .....	47	48	44	139
32	24	51	107	..... Measles .....	82	82	92	256
33	46	64	143	..... Scarlet Fever.....	54	60	85	199
5	7	4	16	..... Diphtheria .....	2	2	2	6
70	118	86	274	..... Whooping-cough .....	19	29	43	91
2	2	4	8	..... Croup .....	1	3	1	5
206	338	1467	2011	..... Diarrhœa .....	132	159	533	824
..	2	9	11	..... Dysentery .....	1	6	13	20
..	..	1	1	..... Malignant Cholera.....	..	1	..	1
29	18	19	66	..... Erysipelas .....	22	14	21	57
11	12	17	40	..... Continued Fever .....	47	41	47	135
..	..	2	2	..... Typhus .....	51	57	67	175
1	4	3	8	..... Enteric or Typhoid .....	29	12	19	60
40	47	64	151	..... Febricula .....	114	169	157	440
1	4	2	7	..... Ague .....	..	1	..	1
47	34	56	137	..... Rheumatic Fever.....	65	73	65	203
..	..	..	..	..... Puerperal Fever .....	..	1	..	1
613	560	573	1746	..... Bronchitis and Catarrh .....	669	643	688	2000
6	4	7	17	..... Influenza .....	1	4	12	17
34	37	34	105	..... Pleurisy and Pneumonia .....	72	73	93	238
84	92	104	280	..... Phthisis .....	227	268	360	855
16	23	24	63	..... Constitutional Syphilis .....	116	122	162	400
3322	3585	4536	11443	.... Accidents, and all other Diseases.....	3579	3924	4766	12269
4562	4964	7130	16656	TOTAL	5328	5790	7268	18386

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

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Height of barometer cistern above sea level .....	108 ft.	123 ft.	145 ft.	251 ft.	43 ft.
<b>Barometer.</b>	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level .....	30.231		30.231		
Highest.....	30.283		30.283		
Lowest .....	29.979		29.979		
Range .....	0.304		0.304		
<b>Temperature.</b>					
Adopted Mean .....	64.2		64.8		
Range for Week .....	33.6		40.7		
Daily Range .....	23.6		29.9		
Maximum in Shade .....	86.6		90.6		
Minimum in Shade .....	53.0		49.9		
Temperature of Dew Point .....	58.5		57.3		
<b>Hygrometrical condition of the Atmosphere.</b>					
Degree of Humidity (Saturation—1,000).....	GRS. 0.816	NO RETURN.	GRS. 0.765	NO RETURN.	NO RETURN.
Prevailing Winds .....	WSW, W		WSW, W		
Rain .....	0.000		0.000		
<b>Ozonometer.</b>					
Moffat .....	....		1.42		
Schonbein .....	....		....		



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

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VOL. IX.] WEEK ENDING SATURDAY, SEPTEMBER 4, 1869. No. 475.

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#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, September the 4th, 1502 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1442, and in the corresponding week of last year it was 1669. The deaths in public practice during the week amounted to 48, being in the proportion of 1 death to every 31 cases.

Last week there was a considerable decrease in the number of Small-Pox cases, this week it has risen from 2 to 5. This disease still continues to be restricted to the Townships of Manchester and Salford; 1 case occurred in the former and 4 in the latter.

Measles is steadily declining in prevalency, the numbers for the last three weeks being 10, 9, and 6.

There is a considerable increase in the cases of Scarlatina, the number having risen from 12 to 25. This disease was very generally distributed over the several districts during the week.

Diarrhoea and Dysentery have declined in prevalency, 127 cases were observed during the week, being 12 less than in the preceding week.

The fever return is unsatisfactory, 40 cases were observed during the week. Nine of these were assigned to Continued Fever, 18 to Typhus, and 13 to Typhoid Fever.

The cases of Bronchitis and other acute chest diseases have risen from 114 to 132.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

This week 245 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Sixty-one deaths were caused by Diarrhoea, 56 by Diseases of the Lungs, 11 by Scarlatina, 7 each by Fever and Whooping-Cough, and 5 by Measles.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 56.1°; at the Salford Observatory it was 53.9°; and at Eccles 54.0°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,  
PALL MALL, MANCHESTER.



**RETURN FROM PAUPER, CHARITABLE, AND PUBLIC**  
*New Cases of Disease coming under Treatment D*

MANCHESTER.																	
Area in Statute Acres.....	Manchester Township 1,645 .....																
Population in 1861.....	" " 185,050 .....																
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.									
	1	2	3	4	5	6	Total of Districts.	7	ROYAL INFIRMARY.						CHILDREN		
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.	City Gaol.	
Small-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	a1	..	..	..	..
Measles .....	..	..	..	..	..	2	2	..	..	..	..	..	..	..	1	..	..
Scarlet Fever .....	..	1	..	..	..	..	1	..	..	..	..	1	..	..	4	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	5	1	1	1	3	11	2	..	4	1	..	1	37	17	..	..
Dysentery .....	..	..	..	1	..	..	1	..	..	..	..	..	..	2	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	1	..	..	..	..	..	1	1	..	..	..	..	..	..	1	..	..
Continued Fever.....	..	..	1	..	1	..	2	..	..	..	..	..	..	..	..	..	..
Typhus .....	..	..	..	..	..	2	2	4	2	..	..	..	1	..	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	4	1	..	..	1	1	..	..	..	..
Febricula.....	..	..	..	..	..	..	..	1	..	1	1	..	2	4	2	..	..
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	1	..	1	2	2	..	..	..	4	..	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	2	1	3	..	..	6	12	10	1	12	1	1	..	10	10	..	..
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	..	1	1	..	1	..	3	..	..	..	..	..	1	..	..	..	..
Phthisis .....	1	..	..	..	..	..	1	3	..	26	1	3	3	2	1	..	..
Constitutional Syphilis .....	..	..	..	..	..	..	..	6	..	2	..	..	1	..	1	..	..
All other Diseases .....	17	4	12	14	5	9	61	65	27	137	6	2	6	35	88	..	..
Accidents .....	3	1	..	1	..	1	6	3	28	151	..	..	1	..	1	..	..
TOTAL .....	24	13	18	17	9	23	104	101	61	333	10	8	22	90	129	17	..

*a Removed to Workhouse.*

*Medical Officers to whom the Association*

(1) Mr. R. M. MANN.  
 (2) „ J. BROADBENT,  
 (3) „ EDWARD MEACHAM,  
 (4) „ JOHN WALSH.

(5) Mr. OCTAVIUS DEAN,  
 (6) Dr. LEDWARD,  
 (7) Mr. J. WESTMORELAND,  
 (8) „ J. P. SLEIGHTHOLME,

(9) }  
 (10) } Mr. W. H. CARRUTHERS,  
 (11) } „ J. PORTER,  
 (12) } „ C. CURRIE RITCHIE,

(13) Mr. H. RUNCORN,  
 (14) „ W. M. MACCA,  
 (15) „ J. OGDEN FLE,  
 (16) Dr. A. C. CLARK

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



ANITARY ASSOCIATION.

ONS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 4th day of September, 1869.

SALFORD.					HULME.			CHORLTON.		ARDWICK.	PENDLETON & PENDLEBURY.			Area in Statute Acres. Population in 1861.		DEATHS.					
1,329					477.			646.		508.	2650.										
70,967.					68,209.			44,850.		21739	24,148										
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.		Poor Law District.		Ardwick & Ancoats Dispensary.		Chorlton Union Workhouse.		Total.		Corresponding Week last Year.		DISEASES.	
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.									
17	18	19	20	21	22	23	24	25	26	27	28	29									
..	..	1	2	..	..	..	..	..	..	..	..	..	5	1	Small-pox .....		..				
..	..	..	3	..	..	..	..	..	..	..	..	..	6	5	Measles .....		..				
3	..	..	7	..	..	2	..	1	3	..	1	2	25	48	Scarlet Fever.....		..				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....		..				
..	..	..	..	..	..	..	..	..	1	..	..	1	6	1	Whooping-cough ....		2				
..	..	..	2	..	..	..	..	..	..	..	..	..	2	1	Croup .....		..				
3	1	..	11	7	..	2	..	1	6	..	1	12	120	144	Diarrhoea .....		5				
..	..	..	3	..	..	..	..	..	1	..	..	..	7	1	Dysentery .....		..				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..		..				
..	..	..	..	..	..	..	..	..	..	..	..	..	3	6	Erysipelas .....		1				
..	1	3	3	..	..	..	..	..	..	..	..	..	9	49	Continued Fever ....		..				
..	..	..	3	..	..	..	..	..	..	..	..	5	18	40	Typhus .....		2				
2	..	..	2	..	..	..	..	..	..	1	..	..	13	30	Enteric or Typhoid ..		..				
..	..	..	5	1	..	..	1	..	..	..	..	1	20	65	Febricula .....		1				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....		..				
..	..	..	..	..	..	1	..	1	..	..	..	..	11	16	Rheumatic Fever ....		..				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....		..				
6	3	1	29	3	1	..	2	1	4	1	2	3	121	128	Bronchitis & Catarrh		5				
..	..	..	..	..	..	..	..	..	..	..	..	..	1	7	Influenza .....		..				
..	..	..	4	..	..	..	..	..	..	..	..	..	10	11	Pleurisy & Pneumonia.		..				
2	..	..	9	1	..	..	..	2	2	..	1	4	61	60	Phthisis .....		10				
..	..	..	8	1	..	1	3	1	..	..	..	6	32	29	Constitutional Syphilis		..				
16	16	15	61	3	4	7	8	27	24	7	15	65	719	712	All other diseases ....		22				
1	..	..	71	..	..	..	..	..	20	..	30	1	313	315	Accidents .....		..				
33	21	20	223	16	5	13	11	34	61	9	50	100	1502	1669	TOTAL .....		48				

debited for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18) „ JAMES CRAN.  
(19) Mr. A. VEITCH  
(20) Mr. A. VEITCH  
(21) Dr. BRADDON,

(22) Mr. S. WOODCOCK,  
(23) Dr. ALEX. WILSON,  
(24) Mr. H. M. WILLIAMSON.  
(25) „ JOSEPH FOSTER,

(26) Mr. W. C. BARNISH,  
(27) „ J. V. L. WESTMACOTT,  
(28) „ R. P. O. GORMAN,  
(29) „ GEORGE CLEMENTS.

e report of the Association, and has, as far as practicable, been taken into account in the conclusion  
from the weekly returns.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bowei.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .....	1	1	..	1	..	..	1	..	..	..	1	5	2
Whooping-cough.....	3	5	1	..	..	..	..	..	..	..	..	7	1
Scarlatina .....	3	2	1	2	..	..	..	..	..	2	1	11	40
Diarrhœa .....	8	9	1	4	5	4	10	1	6	11	2	61	87
Fever .....	..	..	1	..	..	..	12	2	12	..	..	7	21
Diseases of the Lungs	10	9	4	6	6	..	3	..	2	15	1	56	48
Other causes.....	14	6	15	8	1	8	14	6	11	13	2	98	149
<b>TOTAL NO. OF DEATHS.</b>	<b>37</b>	<b>32</b>	<b>23</b>	<b>21</b>	<b>12</b>	<b>12</b>	<b>30</b>	<b>9</b>	<b>21</b>	<b>41</b>	<b>7</b>	<b>245</b>	<b>351</b>
<b>TOTAL NO. OF BIRTHS.</b>	<b>35</b>	<b>41</b>	<b>19</b>	<b>16</b>	<b>22</b>	<b>38</b>	<b>23</b>	<b>21</b>	<b>31</b>	<b>65</b>	<b>25</b>	<b>336</b>	<b>381</b>

## Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON. | At Pauper, Charitable, and Public Institutions in  
 Medical Officer of Health, John Whitmore, M.D. | MANCHESTER and SALFORD.  
 Population in 1861, 161680. | Population in 1861, 390,815.

4 Weeks ending 29th May.	4 Weeks ending 26th June.	5 Weeks ending 31st July.	TOTAL.	DISEASES.	4 Weeks ending 29th May.	4 Weeks ending 26th June.	5 Weeks ending 31st July.	TOTAL
10	7	3	20	..... Small-pox .....	47	48	44	139
32	24	51	107	..... Measles .....	82	82	92	256
33	46	64	143	..... Scarlet Fever.....	54	60	85	199
5	7	4	16	..... Diphtheria .....	..	..	..	..
70	113	86	274	..... Whooping-cough .....	19	29	43	91
2	2	4	8	..... Croup .....	1	3	1	5
206	338	1467	2011	..... Diarrhœa .....	132	159	533	824
..	2	9	11	..... Dysentery .....	1	6	13	20
..	..	1	1	..... Malignant Cholera.....	..	1	..	1
29	18	19	66	..... Erysipelas .....	22	14	21	57
11	12	17	40	..... Continued Fever .....	47	41	47	135
..	..	2	2	..... Typhus .....	51	57	67	175
1	4	3	8	..... Enteric or Typhoid .....	29	12	19	60
40	47	64	151	..... Febricula .....	114	169	157	440
1	4	2	7	..... Ague .....	..	1	..	1
47	34	56	137	..... Rheumatic Fever.....	65	73	65	203
..	..	..	..	..... Puerperal Fever.....	..	1	..	1
613	560	573	1746	..... Bronchitis and Catarrh .....	639	643	688	2000
6	4	7	17	..... Influenza.....	1	4	12	17
34	37	34	105	..... Pleurisy and Pneumonia .....	72	73	93	238
84	92	104	280	..... Phthisis .....	227	268	360	855
16	23	24	63	..... Constitutional Syphilis .....	116	122	162	400
3322	3585	4536	11443	....Accidents, and all other Diseases.....	3579	3924	4766	12269
4562	4964	7130	16656	<b>TOTAL</b>	5328	5790	7268	18386

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Salford Meteorologl. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Height of barometer cistern above sea level .....	108 ft.	123 ft.	145 ft.	251 ft.	43 ft.
<b>Barometer.</b>	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level .....	30.249		30.249		30.245
Highest.....	30.385		30.385		30.486
Lowest .....	29.723		29.723		29.816
Range .....	0.662		0.662		0.670
<b>Temperature.</b>					
Adopted Mean .....	53.9		54.0		53.9
Range for Week .....	31.5		35.0		39.5
Daily Range.....	15.2		21.4		26.2
Maximum in Shade .....	71.7		71.5		71.6
Minimum in Shade .....	40.2		36.5		32.1
Temperature of Dew Point .....	43.2		44.7		46.0
<b>Hygrometrical condition of the Atmosphere.</b>					
Degree of Humidity (Saturation—1,000).....	GRS. 0.670	NO RETURN.	GRS. 0.705	NO RETURN.	GRS. 0.740
Prevailing Winds .....	N, NE		N, NE		....
Rain .....	0.018		0.037		....
<b>Ozonometer.</b>					
Moffat .....	....		1.28		....
Schonbein .....	....		....		....

September, 4, 1869.

THOMAS MACKERETH, Esq., F.R.A.S.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.1

WEEK ENDING SATURDAY, SEPTEMBER 11, 1869.

No. 476.

**DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, September the 11th, 1488 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1502, and in the corresponding week of last year it was 1488. The deaths in public practice during the week amounted to 52, being in the proportion of 1 death to every 28 cases.

Small-Pox is again becoming more prevalent, the numbers for the last three weeks being respectively 2, 5, and 8. This disease still continues to be confined to the Townships of Manchester and Salford; 7 cases having occurred in the former and 1 in the latter.

The cases of Measles have risen in number from 6 to 12. This increase was more marked in the Townships of Manchester, where 8 cases were observed, 2 of the remaining 4 were observed in Salford, and 2 in Ardwick.

It is satisfactory to record a decrease in the number of Scarlatina cases, 15 being returned instead of 25; 9 of these occurred in Manchester, 1 each in Salford and Hulme, and 2 each in Chorlton and Ardwick. In the corresponding week of last year the number was 55.

Diarrhœa and Dysentery continue to decline, the numbers for the last three weeks being 139, 129, and 116 respectively.

There is but a slight change in the fever return, 38 cases having occurred instead of 40. Thirteen were assigned to Continued Fever, 12 to Typhus, and 13 to Typhoid Fever. In the corresponding week of last year the number was 100.

Whooping-Cough remains the same as in the preceding week, 6 cases being returned.

The cases of Bronchitis and other acute chest diseases have risen from 132 to 141.

**DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

This week 236 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Forty-nine deaths were caused by Diarrhœa, 46 by Diseases of the Lungs, 13 by Scarlatina, 10 by Measles, and 6 by Fever.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 63.5°; at the Salford Observatory it was 61.2°; at Eccles 60.7°; and at Old Trafford 60.8°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



MANCHESTER AND SALE

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment D

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	,, ,, 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	Workhouse. 7	ROYAL INFIRMARY.					CHILDREN		
									In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	City Genl. Hospital. 15
Small-pox .....	..	..	..	..	..	..	..	2	5	..	..	..	..	..	..	..
Measles .....	1	..	2	..	1	1	5	..	..	..	..	2	..	..	1	..
Scarlet Fever .....	1	..	..	..	..	..	1	..	1	..	..	1	2	2	2	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	1	..	1	3	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	3	..	..	4	3	10	2	..	3	..	..	..	37	25	..
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever.....	..	a1	..	a1	a2	..	4	..	..	..	..	..	..	..	..	..
Typhus .....	..	..	1	..	..	..	1	6	1	..	..	2	..	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	2	4	..	..	..	1	..	2	..
Febricula.....	..	..	..	..	2	1	3	3	2	..	..	1	1	10	..	..
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	..	2	..	1	..	..	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	..	3	3	2	1	4	13	4	1	16	..	1	1	2	8	..
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	1	..	..	..	2	..	3	2	2	..	..	1	1	..	1	..
Phthisis .....	..	..	..	..	..	1	1	5	2	27	1	2	1	..	..	..
Constitutional Syphilis .....	..	..	..	..	..	..	..	8	..	3	1	..	..	..	1	2
All other Diseases .....	14	6	10	5	4	5	44	82	26	140	1	4	13	36	100	5
Accidents .....	1	1	..	..	..	1	3	7	19	142	..	..	2	..	..	..
TOTAL .....	18	14	16	8	16	16	88	123	65	331	4	15	22	88	143	17

a Removed to Workhouse.

Medical Officers to whom the Association

- (1) Mr. R. M. MANN.

(2) „ J. BROADBENT,

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(15) „ J. OGDEN FLE

(16) Dr. A. C. CLARKE

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



SANITARY ASSOCIATION.

IONS OF MANCHESTER AND ADJOINING DISTRICTS  
Week ending the 11th day of September, 1869.

SALFORD.					HULME.			CHORLTON.		ARDWICK	PENDLETON & PENDLEBURY.			Area in Statute Acres. Population in 1861.		DEATHS.
..... 1,329 .....					..... 477.....			.. 646...		508.	..... 2650.....					
..... 70,967. ....					.. 68,209. ..			.. 44,850.		21739						
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.		Poor Law District.	Ardwick & Anecats Dispensary.		Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.		Poor Law District.	Dispensary.				
17	18	19	20	21	22	23	24	25	26	27	28	29				
..	..	1	..	..	..	..	..	..	..	..	..	..	8	2	Small-pox .....	1
..	..	..	2	..	..	..	..	..	..	..	2	..	12	6	Measles .....	..
..	..	..	1	..	..	1	..	..	2	..	2	..	15	55	Scarlet Fever. ....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..
..	..	..	..	..	..	..	..	..	1	..	..	..	6	..	Whooping-cough ....	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..
..	3	..	5	5	..	2	..	2	9	..	..	8	116	146	Diarrhoea .....	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	Dysentery .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..
..	..	..	..	..	..	..	..	..	1	..	1	..	4	12	Erysipelas .....	..
..	..	2	2	..	..	..	..	1	1	..	1	2	13	38	Continued Fever ....	..
..	..	..	1	..	..	..	..	..	..	..	..	..	12	45	Typhus .....	2
..	..	..	1	..	1	..	..	..	..	..	2	..	13	22	Enteric or Typhoid ..	1
..	..	..	4	..	..	1	1	2	2	..	..	2	35	72	Febricula .....	..
..	..	..	..	..	..	..	..	..	..	..	1	..	1	1	Ague .....	..
..	..	..	..	2	1	..	..	..	..	..	..	..	6	12	Rheumatic Fever ....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....	..
9	2	..	27	2	2	2	1	4	6	3	5	8	124	152	Bronchitis & Catarrh	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	Influenza .....	..
..	..	..	3	..	1	..	..	..	..	..	2	1	17	17	Pleurisy & Pneumonia.	1
1	1	..	8	..	..	..	1	1	2	..	3	4	61	68	Phthisis .....	12
..	..	..	6	1	..	..	..	2	1	..	2	6	33	33	Constitutional Syphilis	..
16	8	7	85	4	2	7	8	14	44	..	12	55	728	766	All other diseases ....	29
..	..	..	65	..	..	1	1	..	13	..	30	1	284	297	Accidents .....	..
26	14	10	210	14	7	14	12	26	82	3	63	87	1488	1749	TOTAL .....	52

ndebted for the annexed Returns.

- (17) Dr. T. M. JOHNSON,  
(18) „ JAMES CRAN.  
(19)  
(20) Mr. A. VEITCH  
(21) Dr. BRADDON,

(22) Mr. S. WOODCOCK,  
(23) Dr. ALEX. WILSON,  
(24) Mr. H. M. WILLIAMSON.  
(25) „ JOSEPH FOSTER,

(26) Mr. W. C. BARNISH,  
(27) „ J.V.L.WESTMACOTT,  
(28) „ R. P. O. GORMAN,  
(29) „ GEORGE CLEMENTS.

he report of the Association, and has, as far as practicable, been taken into account in the conclusion  
wn from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bowler.	Regent-rd. Dis., Mr. Tipton.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallswoth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	1	..	1	..	..	..	..	..	1	1	1	3	..
Measles .....	2	2	..	3	..	..	..	..	1	..	..	10	1
Whooping-cough.....	..	1	..	2	..	1	..	..	1	4	..	5	34
Scarlatina .....	2	3	2	..	1	..	4	2	1	11	5	13	86
Diarrhoea .....	6	5	3	3	6	3	..	..	1	..	..	49	25
Fever .....	..	1	2	..	..	1	1	..	1	..	1	6	42
Diseases of the Lungs	6	8	7	1	2	4	2	3	3	15	4	46	119
Other causes.....	14	8	11	5	10	10	9	9	10	..	..	105	..
TOTAL NO. OF DEATHS.	31	28	26	14	19	19	16	14	18	40	11	236	308
TOTAL NO. OF BIRTHS.	38	48	10	9	19	26	40	21	36	67	17	331	293

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylcbone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 29th May.	4 Weeks ending 26th June.	5 Weeks ending 31st July.	TOTAL.	DISEASES.	4 Weeks ending 29th May.	4 Weeks ending 26th June.	5 Weeks ending 31st July.	TOTAL
10	7	3	20	Small-pox .....	47	48	44	139
32	24	51	107	Measles .....	82	82	92	256
33	46	64	143	Scarlet Fever.....	54	60	85	199
5	7	4	16	Diphtheria .....	..	..	..	..
70	113	86	274	Whooping-cough .....	19	29	43	91
2	2	4	8	Croup .....	1	3	1	5
206	338	1467	2011	Diarrhoea .....	132	159	533	824
..	2	9	11	Dysentery .....	1	6	13	20
..	..	1	1	Malignant Cholera.....	..	1	..	1
29	18	19	66	Erysipelas .....	22	14	21	57
11	12	17	40	Continued Fever .....	47	41	47	135
..	..	2	2	Typhus .....	51	57	67	175
1	4	3	8	Enteric or Typhoid .....	29	12	19	60
40	47	64	151	Febricula .....	114	169	157	440
1	4	2	7	Ague .....	..	1	..	1
47	34	56	137	Rheumatic Fever.....	65	73	65	203
..	..	..	..	Puerperal Fever.....	..	1	..	1
613	560	573	1746	Bronchitis and Catarrh .....	669	643	688	2000
6	4	7	17	Influenza.....	1	4	12	17
34	37	34	105	Pleurisy and Pneumonia .....	72	73	93	238
84	92	104	280	Phthisis.....	227	268	360	855
16	23	24	63	Constitutional Syphilis .....	116	122	162	400
3822	3585	4536	11443	Accidents, and all other Diseases.....	3579	3924	4766	12269
4562	4964	7130	16656	TOTAL	5828	5790	7268	18386

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Salford Meteorolog. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Height of barometer cistern above sea level .....	108 ft.	123 ft.	145 ft.	251 ft.	43 ft.
<b>Barometer.</b>	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level .....	29.592	29.621	29.592	29.610	29.583
Highest.....	29.727	29.741	29.727	29.636	29.820
Lowest .....	29.179	29.115	29.179	29.104	29.274
Range .....	0.548	0.627	0.548	0.532	0.546
<b>Temperature.</b>					
Adopted Mean .....	61.2	60.8	60.7	60.0	62.9
Range for Week .....	21.8	26.0	24.8	22.9	28.7
Daily Range .....	11.3	16.5	13.9	13.3	15.9
Maximum in Shade .....	72.7	75.0	73.4	70.6	77.1
Minimum in Shade .....	50.9	49.0	48.6	47.7	48.4
Temperature of Dew Point .....	52.3	55.9	54.4	52.9	55.5
<b>Hygrometrical condition of the Atmosphere.</b>					
Degree of Humidity (Saturation—1,000).....	GRS. 0.730	GRS. 0.820	GRS. 0.803	GRS. 0.772	GRS. 0.770
Prevailing Winds .....	S,SW 1.717	SW,S,SE 1.645	S,SW 1.867	.... 1.684	SE,SW 2.050
Rain .....					
<b>Ozonometer.</b>					
Moffat .....	....	4.29	3.42	....	....
Schonbein .....	....	0.86	....	6.86	....



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, SEPTEMBER 18, 1869.

No. 477.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, September the 18th, 1349 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1488. The deaths in public practice during the week amounted to 37, being in the proportion of 1 death to every 36 cases.

The cases of Small-Pox have risen from 8 to 9. The numbers returned from Manchester and Salford remain the same as in the preceding week. The additional case was treated in the Chorlton Union Hospital.

The cases of Measles were returned from the same districts as in the previous week. The number has fallen from 12 to 10. This disease continues to be more prevalent in Manchester than in the other townships.

Scarlatina continues to decline, the numbers for the last three weeks being 25, 15, and 10. It is pretty generally distributed. In the corresponding week of last year the number was 65.

Whooping-Cough is on the increase, 12 cases were observed during the week, being double the number of the preceding return.

The cases of Diarrhoea and Dysentery have fallen in number from 116 to 100.

The Fever return is the same as it was in the preceding week—of the 38 cases that were observed 16 were attributed to Continued Fever, 14 to Typhus, and 8 to Typhoid Fever.

One hundred and forty cases of Bronchitis and other acute chest diseases were reported—being 1 less than in the preceding return.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 229 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Forty-four deaths were caused by Diarrhoea, 38 by Diseases of the Lungs, 14 by Fever, and 8 each by Scarlatina and Measles.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 58.1°; at the Salford Observatory it was 56.5°; at Eccles 55.2°; and at Old Trafford 55.6°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS.  
New Cases of Disease coming under Treatment During the Year 1861.

MANCHESTER.																
Area in Statute Acres.....		Manchester Township 1,645 .....														
Population in 1861.....		" " 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	ROYAL INFIRMARY.					CHILDREN			City Gaol. 15
								Workhouse. 7	In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	
Small-pox .....	..	..	..	..	..	..	..	..	4	..	52	..	1	..	..	..
Measles .....	..	..	2	..	..	4	6	..	1	..	..	..	..	..	..	..
Scarlet Fever .....	..	..	..	1	1	..	2	..	..	..	..	..	1	..	1	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	5	2	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	4	1	..	..	1	3	9	3	..	7	..	..	3	22	23	4
Dysentery .....	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	..	..	1	1	..	..	1	..	..	..	1
Continued Fever.....	a6	1	..	..	..	..	7	1	..	..	..	..	..	..	..	..
Typhus .....	..	..	..	..	..	1	1	7	2	..	a1	1	..	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	2	1	..	..	..	..	..	1	..
Febricula.....	..	2	..	..	..	..	2	..	..	..	..	1	1	4	1	..
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	2	..	..	1	..	..	..	..	2
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	2	2	2	4	2	3	15	3	..	9	..	2	2	4	10	4
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	..	..	..	1	..	..	1	1	..	..	..	1	..	..	1	..
Phthisis .....	..	3	..	..	..	..	3	7	..	22	3	5	5	2	..	1
Constitutional Syphilis .....	..	..	..	..	..	1	1	6	..	1	1	..	..	..	..	2
All other Diseases .....	17	5	6	4	2	10	44	63	28	114	1	10	20	52	73	..
Accidents .....	..	..	..	1	..	3	4	2	12	107	1	..	..	..	..	5
TOTAL .....	30	14	10	11	6	25	96	98	49	260	10	21	33	89	112	19

a Removed to Workhouse. b 1 Removed to Small Pox Hospital.

Medical Officers to whom the Association are indebted for their assistance.

- (1) Mr. R. M. MANN.

(2) „ J. BROADBENT,

(3) „ EDWARD MEACHAM,

(4) „ JOHN WALSH.
- (5) Mr. OCTAVIUS DEAN,

(6) Dr. LEDWARD,

(7) Mr. J. WESTMORELAND,

(8) „ J. P. SLEIGHTHOLME,
- (9) „

(10) Mr. C. CURRIE RITCHIE

(11) „ W. H. CARRUTHERS,

(12) „ H. O. PILKINGTON.
- (13) Mr. H. RUNCORN

(14) „ W. M. MACCA

(15) „ J. OGDEN FLE

(16) Dr. A. C. CLARKE

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door hospitals to the workhouse, and are then reported twice; this fact has several times been noticed.



SANITARY ASSOCIATION.

ONS OF MANCHESTER AND ADJOINING DISTRICTS  
Week ending the 18th day of September, 1869.

SALFORD.					HULME.			CHORLTON.		ARDWICK	PENDLETON & PENNLEBURY.					DEATHS.	
..... 1,329 .....					..... 477.....			... 646...		508.	..... 2650.....			Area in Statute Acres.			
..... 70,967. ....					... 68,209. ..			.. 44,850..		21739	..... 24,448 .....			Population in 1861.			
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS												
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.		
17	18	19	20	21	22	23	24	25	26	27	28	29					
..	..	..	1	..	..	..	..	..	..	..	..	1	9	..	Small-pox .....	..	
..	..	..	2	..	..	..	..	..	..	..	1	..	10	5	Measles .....	1	
..	..	..	2	..	..	3	..	..	..	..	1	..	10	65	Scarlet Fever. ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..	
..	..	..	..	..	..	3	..	1	1	..	..	..	12	..	Whooping-cough ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..	
2	..	..	5	7	..	..	1	1	..	..	2	7	97	121	Diarrhœa .....	5	
..	..	..	2	..	..	..	..	..	..	..	..	..	3	2	Dysentery .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..	
..	1	..	..	..	..	..	1	..	..	..	..	..	6	10	Erysipelas .....	..	
..	1	2	2	..	..	..	..	..	..	1	1	1	16	32	Continued Fever ....	..	
..	..	..	1	..	..	..	..	..	..	..	..	1	14	28	Typhus .....	2	
..	..	..	2	..	..	..	..	..	..	..	..	2	8	15	Enteric or Typhoid ..	2	
..	1	..	3	..	..	..	..	5	7	..	3	..	30	66	Febricula .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..	
..	..	..	..	..	1	..	..	..	..	2	..	..	8	18	Rheumatic Fever ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....	..	
6	3	4	33	5	1	..	2	1	9	2	3	9	129	220	Bronchitis & Catarrh	2	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Influenza .....	..	
1	..	..	3	..	..	..	..	..	..	..	2	..	11	20	Pleurisy & Pneumonia.	1	
1	1	1	13	..	1	..	..	1	4	..	1	3	74	72	Phthisis .....	7	
1	..	..	6	1	..	..	..	1	..	..	1	..	22	37	Constitutional Syphilis	..	
7	14	12	78	3	4	6	4	19	23	5	10	54	652	785	All other diseases ....	17	
..	..	..	65	..	2	1	..	4	10	..	23	2	238	253	Accidents .....	..	
18	21	19	218	16	9	13	8	33	54	10	48	80	1349	1749	TOTAL .. ..	37	

ndeighted for the annexed Returns.

(17) Dr. T. M. JOHNSON,	(22) Mr. S. WOODCOCK,	(26) Mr. W. C. BARNISH,
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Small Pox .....	..	..	1	..	..	..	1	..	1	..	1	1	..
Measles .....	2	3	..	..	..	..	1	..	1	1	2	5	2
Whooping-cough .....	1	1	..	..	2	..	1	..	1	1	1	8	39
Scarlatina .....	1	1	..	..	2	2	10	2	6	4	1	44	61
Diarrhoea .....	8	5	3	1	2	1	2	2	..	..	1	14	26
Fever .....	2	2	3	..	1	1	2	2	..	5	..	38	39
Diseases of the Lungs .....	8	7	7	3	2	..	2	..	4	5	..	38	39
Other causes .....	16	12	15	5	3	4	11	7	12	21	5	111	137
TOTAL NO. OF DEATHS.	38	31	29	9	10	7	27	11	24	32	11	229	308
TOTAL NO. OF BIRTHS.	43	20	26	11	13	20	37	19	49	71	30	349	337

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
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4 Weeks ending 29th May.	4 Weeks ending 26th June.	5 Weeks ending 31st July.	TOTAL.	DISEASES.	4 Weeks ending 29th May.	4 Weeks ending 26th June.	5 Weeks ending 31st July.	TOTAL
10	7	3	20	..... Small-pox .....	47	48	44	139
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206	338	1467	2011	..... Diarrhoea .....	132	159	533	824
..	2	9	11	..... Dysentery .....	1	6	13	20
..	..	1	1	..... Malignant Cholera .....	..	1	..	1
29	18	19	66	..... Erysipelas .....	22	14	21	57
11	12	17	40	..... Continued Fever .....	47	41	47	135
..	..	2	2	..... Typhus .....	51	57	67	175
1	4	3	8	..... Enteric or Typhoid .....	29	12	19	60
40	47	64	151	..... Febricula .....	114	169	157	440
1	4	2	7	..... Ague .....	..	1	..	1
47	34	56	137	..... Rheumatic Fever .....	65	73	65	203
..	..	..	..	..... Puerperal Fever .....	..	1	..	1
613	560	573	1746	..... Bronchitis and Catarrh .....	669	643	688	2000
6	4	7	17	..... Influenza .....	1	4	12	17
34	37	34	105	..... Pleurisy and Pneumonia .....	72	73	93	238
84	92	104	280	..... Phthisis .....	227	263	360	855
16	23	24	63	..... Constitutional Syphilis .....	116	122	162	400
3322	3585	4536	11443	.... Accidents, and all other Diseases .....	3579	3924	4766	12269
4562	4964	7130	16656	TOTAL	5328	5790	7268	18386

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Salford Meteorologl. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Height of barometer cistern above sea level .....	108 ft.	123 ft.	145 ft.	251 ft.	43 ft.
<b>Barometer.</b>	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level .....	29.457	29.453	29.457	29.455	29.436
Highest .....	29.713	29.712	29.713	29.634	29.800
Lowest .....	28.991	28.956	28.991	28.896	29.066
Range .....	0.722	0.756	0.722	0.738	0.734
<b>Temperature.</b>					
Adopted Mean .....	56.5	55.6	55.2	55.2	57.9
Range for Week .....	21.7	24.0	23.1	22.3	25.4
Daily Range .....	11.0	12.7	11.9	11.7	12.8
Maximum in Shade .....	70.7	72.0	70.7	69.5	72.3
Minimum in Shade .....	49.0	48.0	47.6	47.2	46.9
Temperature of Dew Point .....	50.9	51.3	51.0	50.5	51.3
<b>Hygrometrical condition of the Atmosphere.</b>					
Degree of Humidity (Saturation—1,000) .....	GRS. 0.816	GRS. 0.864	GRS. 0.880	GRS. 0.848	GRS. 0.785
Prevailing Winds .....	W, WSW	S, SW	W, WSW	SW	SW
Rain .....	2.120	2.375	2.107	2.654	1.685
<b>Ozonometer.</b>					
Moffat .....	0.85	7.71	9.00	8.71	....
Schonbein .....	....	2.14	....	....	....



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, SEPTEMBER 25, 1869.

No. 478.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, September the 25th, 1415 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1349, and in the corresponding week of last year it was 1743. The deaths in public practice during the week amounted to 37, being at the rate of 1 death to every 38 cases.

There is a decrease in the Small-Pox return, the cases having fallen from 9 to 2. One of these cases was observed in Manchester and the other in Hulme.

Measles remains very much the same as in the preceding week, 11 cases being returned instead of 10. The same number occurred in Manchester as in the previous week, 3 were observed in Salford and 1 in Hulme.

The cases of Scarlatina have risen from 10 to 14. In the corresponding week of last year the number was 62.

Whooping-Cough is becoming prevalent, the numbers of cases for the last three weeks being 6, 12, and 19. Sixteen cases were observed during the week at the two Hospitals for Children.

The Fever return remains nearly the same as it was last week, 37 cases being reported instead of 38. Ten of these were assigned to Continued Fever, 14 to Typhus, and 13 to Typhoid Fever.

The cases of Bronchitis and other acute chest diseases have risen from 140 to 164.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 221 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Forty-six deaths were caused by Diseases of the Lungs, 44 by Diarrhœa, 11 by Fever, 10 by Scarlatina, and 7 by Measles.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 56·8°; at the Salford Observatory it was 55·9°; at Eccles 55·2°; and at Old Trafford 55·5°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



# MANCHESTER AND SALE

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS. New Cases of Disease coming under Treatment During the Year 1861.

MANCHESTER.																
Area in Statute Acres .....							Manchester Township 1,645 .....									
Population in 1861 .....							" " 185,050 .....									
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	ROYAL INFIRMARY.					CHILDREN			City and County 15
								Workhouse. 7	In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	
Small-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	cl	..	..	..
Measles .....	1	..	3	..	..	..	4	..	..	..	..	1	..	1	1	..
Scarlet Fever .....	..	..	..	2	..	1	3	..	..	..	..	1	..	1	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	11	5	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa .....	1	2	1	..	..	1	5	..	..	23	..	..	3	34	18	..
Dysentery .....	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..
Malignant Cholera .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..
Continued Fever .....	1	..	2	..	..	..	3	..	..	..	..	..	..	..	..	..
Typhus .....	..	..	..	..	1	..	1	4	..	..	..	..	..	..	..	..
Enteric or Typhoid .....	a1	..	..	..	..	..	1	1	3	..	..	1	2	..	..	..
Febricula .....	..	..	..	..	..	1	1	1	..	..	..	1	..	9	4	..
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	..	2	4	2	..	..	..	..	..
Puerperal Fever .....	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	2	2	1	..	1	12	18	4	..	22	..	1	3	8	7	..
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia .....	1	..	..	1	..	..	2	1	..	3	1	..	..	..	1	..
Phthisis .....	..	..	..	..	..	2	2	5	..	21	1	1	6	..	3	..
Constitutional Syphilis .....	1	..	..	..	..	..	1	14	..	5	1	..	..	1	3	..
All other Diseases .....	8	6	10	4	2	13	43	39	24	129	2	4	7	60	46	..
Accidents .....	2	1	..	2	1	1	7	2	15	131	..	1	1	..	..	..
TOTAL .....	18	11	17	10	5	31	92	71	44	341	7	11	23	126	88	1

a Removed to Workhouse.

b 1 Removed to Workhouse.

c Removed to Small Po.

Medical Officers to whom the Association are indebted for their services.

(1) Mr. R. M. MANN.  
(2) „ J. BROADBENT,  
(3) „ EDWARD MEACHAM,  
(4) „ JOHN WALSH.

(5) Mr. OCTAVIUS DEAN,  
(6) Dr. LEDWARD,  
(7) Mr. J. WESTMORELAND,  
(8) „ J. P. SLEIGHTHOLME,

(9) „  
(10) Mr. C. CURRIE RITCHIE,  
(11) „ W. H. CARRUTHERS,  
(12) „ H. O. PILKINGTON.

(13) Mr. H. RUNCOCK,  
(14) „ W. M. MACCARTHY,  
(15) „ J. OGDEN FLEMING,  
(16) Dr. A. C. CLARKE.

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed.



# SANITARY ASSOCIATION.

IONS OF MANCHESTER AND ADJOINING DISTRICTS  
Week ending the 25th day of September, 1869.

SALFORD.						HULME.			CHORLTON.		ARDWICK.		PENDLETON & PENDLEBURY.				Area in Statute Acres. Population in 1861.		DEATHS.		
..... 1,329 .....						..... 477 .....			... 646 ...		508.		..... 2650 .....							..... 24,148 .....	
..... 70,967. ....						... 68,209. ...			.. 44,850.		21739										
POOR LAW DISTRICT			PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.		Poor Law District.		Ardwick & Ancoats Dispensary.		Chorlton Union Workhouse.		Total.			Corresponding Week last Year.	
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.						
6	17	18	19	20	21	22	23	24	25	26	27	28	29								
..	..	..	..	..	..	..	..	..	..	1	..	..	..	2	1	Small-pox .....					
..	..	..	..	3	..	..	1	..	..	..	..	..	..	11	8	Measles .....					
3	..	..	..	2	..	..	..	..	2	2	..	..	..	14	62	Scarlet Fever. ....					
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....					
..	..	..	..	..	..	..	..	..	2	..	..	..	1	19	1	Whooping-cough ....					
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Croup .....					
2	1	3	..	3	5	1	..	1	1	3	..	1	3	111	123	Diarrhoea .....					
..	..	..	..	..	..	..	..	..	1	..	..	..	..	3	3	Dysentery .....					
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..					
..	..	..	..	..	..	..	..	..	1	..	..	..	1	5	6	Erysipelas .....					
..	..	..	1	3	..	..	..	1	..	..	..	2	..	10	72	Continued Fever ....					
..	..	..	..	3	..	1	..	..	a1	1	..	..	3	14	32	Typhus .....					
..	..	..	..	1	..	1	..	..	b2	..	..	..	..	13	26	Enteric or Typhoid ..					
..	..	..	..	5	..	..	1	1	..	5	..	1	5	34	77	Febricula .....					
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Ague .....					
..	..	..	1	..	..	..	..	..	..	..	..	..	..	9	15	Rheumatic Fever ....					
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	Puerperal Fever .....					
5	4	2	4	34	2	..	3	4	3	6	3	2	6	146	218	Bronchitis & Catarrh					
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	Influenza .....					
..	..	..	..	5	..	1	..	..	1	..	..	2	1	18	17	Pleurisy & Pneumonia.					
..	2	..	..	9	..	2	..	..	3	3	..	1	2	62	77	Phthisis .....					
1	..	..	..	7	1	1	..	..	2	..	..	1	5	44	41	Constitutional Syphilis					
7	6	10	90	2	4	2	11	20	21	7	13	47	620	699		All other diseases ....					
1	3	..	75	..	1	1	..	..	1	8	..	27	5	279	254	Accidents .....					
14	16	16	240	10	12	8	18	40	50	10	50	79	1415	1743		TOTAL .. ...					

indebted for the annexed Returns.

- |                         |                           |                          |
|-------------------------|---------------------------|--------------------------|
| (17) Dr. T. M. JOHNSON, | (22) Mr. S. WOODCOCK,     | (26) Mr. W. C. BARNISH,  |
| (18) „ JAMES CRAN.      | (23) Dr. ALEX. WILSON,    | (27) „ J.V.L.WESTMACOTT, |
| (19)                    | (24) Mr. H. M.WILLIAMSON. | (28) „ R. P. O. GORMAN,  |
| (20) Mr. A. VEITCH      | (25) „ JOSEPH FOSTER,     | (29) „ GEORGE CLEMENTS.  |
| (21) Dr. BRADDON,       |                           |                          |

the report of the Association, and has, as far as practicable, been taken into account in the conclusion drawn from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bowci.	Regent-rd. Dis., Mr. Tiplle.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	..	..	..	..	..	..	7	3
Measles .....	1	4	1	..	1	3	1	..	..	..	..	4	1
Whooping-cough.....	..	..	..	..	1	3	1	..	1	2	1	10	49
Scarlatina .....	2	1	2	..	..	1	5	1	3	7	3	44	50
Diarrhoea .....	7	8	2	5	2	1	5	1	3	7	3	44	50
Fever .....	2	..	3	..	..	2	3	..	..	1	..	11	29
Diseases of the Lungs	3	11	4	1	2	1	2	5	4	12	1	46	55
Other causes.....	7	14	7	7	6	13	13	5	7	17	3	99	124
TOTAL NO. OF DEATHS.	22	38	19	13	11	20	25	11	15	39	8	221	311
TOTAL NO. OF BIRTHS.	36	27	7	19	25	27	38	22	41	72	17	331	375

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylbone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,315.

4 Weeks ending 29th May.	4 Weeks ending 26th June.	5 Weeks ending 31st July.	TOTAL.	DISEASES.	4 Weeks ending 29th May.	4 Weeks ending 26th June.	5 Weeks ending 31st July.	TOTAL
10	7	3	20	..... Small-pox .....	47	48	44	139
32	24	51	107	..... Measles .....	82	82	92	256
33	46	64	143	..... Scarlet Fever.....	54	60	85	199
5	7	4	16	..... Diphtheria .....	..	..	..	..
70	118	86	274	..... Whooping-cough .....	19	29	43	91
2	2	4	8	..... Croup .....	1	3	1	5
206	338	1467	2011	..... Diarrhoea .....	132	159	533	824
..	2	9	11	..... Dysentery .....	1	6	13	20
..	..	1	1	..... Malignant Cholera.....	..	1	..	1
29	18	19	66	..... Erysipelas .....	22	14	21	57
11	12	17	40	..... Continued Fever .....	47	41	47	135
..	..	2	2	..... Typhus .....	51	57	67	175
1	4	3	8	..... Enteric or Typhoid .....	29	12	19	60
40	47	64	151	..... Febricula .....	114	169	157	440
1	4	2	7	..... Ague .....	..	1	..	1
47	34	56	137	..... Rheumatic Fever.....	65	73	65	203
..	..	..	..	..... Puerperal Fever.....	..	1	..	1
613	560	573	1746	..... Bronchitis and Catarrh .....	669	643	688	2000
6	4	7	17	..... Influenza .....	1	4	12	17
34	37	34	105	..... Pleurisy and Pneumonia .....	72	73	93	238
84	92	104	280	..... Phthisis .....	227	263	360	855
16	23	24	63	..... Constitutional Syphilis .....	116	122	162	400
3322	3585	4536	11443	..... Accidents, and all other Diseases.....	3579	3924	4766	12269
4562	4964	7130	16656	TOTAL	5328	5790	7268	18386

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Salford Meteorologl. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Height of barometer cistern above sea level .....	108 ft.	123 ft.	145 ft.	251 ft.	43 ft.
<b>Barometer.</b>	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level .....	29.783	29.804	29.783	29.800	29.777
Highest.....	30.019	30.019	30.019	29.934	30.114
Lowest .....	29.229	29.228	29.229	29.158	29.312
Range .....	0.790	0.791	0.790	0.776	0.802
<b>Temperature.</b>					
Adopted Mean .....	55.9	55.5	55.2	54.3	57.5
Range for Week .....	25.6	29.0	31.4	32.1	31.4
Daily Range.....	11.5	14.9	14.1	13.1	15.0
Maximum in Shade .....	72.5	72.0	73.4	70.8	73.1
Minimum in Shade .....	46.9	43.0	42.0	38.7	41.7
Temperature of Dew Point .....	46.3	48.3	47.8	45.6	50.0
<b>Hygrometrical condition of the Atmosphere.</b>					
Degree of Humidity (Saturation—1,000).....	GRS. 0.700	GRS. 0.773	GRS. 0.764	GRS. 0.720	GRS. 0.761
Prevailing Winds .....	NW,SW	SW	NW,SW	..	..
Rain .....	0.913	0.884	0.840	0.647	0.475
<b>Ozonometer.</b>					
Moffat .....	0.71	5.43	5.42	....	....
Schonbein .....	....	3.71	....	7.28	....



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, OCTOBER 2, 1869.

No. 479.

#### DISEASES.—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, October the 2nd, 1488 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1415, and in the corresponding week of last year it was 1810. The deaths in public practice during the week amounted to 37, being at the rate of 1 death to every 40 cases.

Small-Pox shows no tendency to disappear from Manchester and Salford, 10 cases were observed during the week, being 8 more than in the previous return. This disease is again confined to the public practice of the Townships of Manchester and Salford.

For several weeks Measles has prevailed principally in the Township of Manchester; this week 12 of the cases were observed there and the 1 remaining case occurred in Chorlton.

Scarlatina is declining in prevalency, the number of cases has fallen from 14 to 9; 7 of these occurred in Manchester and 1 each in Hulme and Chorlton. In the corresponding week of last year the number was 59.

Whooping-Cough is keeping its ground; 19 cases were observed this week, being the same as in the preceding return.

The Fever return is not satisfactory, 41 cases were observed during the week. Eleven of these were attributed to Continued Fever, 25 to Typhus, and 7 to Typhoid Fever.

The cases of Bronchitis and other acute chest diseases have fallen in number from 164 to 151.

#### DEATHS.—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 217 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Forty-four deaths were caused by Diseases of the Lungs, 32 by Diarrhœa, 15 by Fever, 6 by Scarlatina, and 4 by Measles.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 58·8°; at the Salford Observatory it was 57·5°; at Eccles 57·0°; and at Old Trafford 56·9°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



# MANCHESTER AND SALES

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS. New Cases of Disease coming under Treatment During the Year 1861.

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	" " 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	Workhouse. 7	ROYAL INFIRMARY.						CHILDREN	
									In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	City Gaol. 15
Small-pox .....	..	..	..	..	..	..	..	..	3	..	..	..	..	..	..	..
Measles .....	3	..	1	1	1	..	6	..	1	..	..	3	..	1	1	..
Scarlet Fever .....	..	..	2	..	1	2	5	..	..	..	1	..	1	..	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	1	..	..	..	1	..	..	..	..	..	..	8	6	..
Croup .....	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..
Diarrhoea.....	3	1	1	1	..	3	9	..	..	5	..	1	1	24	14	4
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	2	..	2	1	..	..	1	1	..	..	..	1
Continued Fever.....	a2	..	1	..	a1	..	4	1	..	..	..	..	..	..	..	..
Typhus .....	..	..	..	..	a1	3	4	6	1	..	..	..	1	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	1	3	..	..	..	..	..	..	..
Febricula.....	1	..	..	5	..	..	6	2	..	1	..	2	1	10	8	2
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Rheumatic Fever .....	..	..	..	..	..	..	..	1	1	3	2	..	1	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	3	3	5	2	3	6	22	5	1	18	..	..	..	6	19	4
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Pleurisy and Pneumonia....	..	..	..	1	..	..	1	1	..	..	1	..	..	..	..	..
Phthisis ....	..	..	..	1	..	..	1	2	..	23	3	1	3	4	2	..
Constitutional Syphilis .....	..	1	..	..	..	..	1	9	..	7	..	..	..	..	..	2
All other Diseases .....	22	10	21	14	..	10	77	56	27	160	3	5	7	54	63	3
Accidents .....	..	1	..	..	2	1	4	5	18	122	1	..	..	..	3	..
TOTAL .....	34	16	32	25	12	25	144	90	55	339	12	13	15	107	118	16

a Removed to Workhouse.

Medical Officers to whom the Association are indebted for their services.

- (1) Mr. R. M. MANN.  
(2) „ J. BROADBENT,  
(3) „ EDWARD MEACHAM,  
(4) „ JOHN WALSH.

- (5) Mr. OCTAVIUS DEAN,  
(6) Dr. LEDWARD,  
(7) Mr. J. WESTMORELAND,  
(8) „ J. P. SLEIGHTHOLME,

- (9) „  
(10) Mr. C. CURRIE RITCHIE,  
(11) „ W. H. CARRUTHERS,  
(12) „ H. O. PILKINGTON.

- (13) Mr. H. RUNCORN,  
(14) „ W. M. MACCARTHY,  
(15) „ J. OGDEN FLEMING,  
(16) Dr. A. C. CLARK.

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed.



SANITARY ASSOCIATION.

IONS OF MANCHESTER AND ADJOINING DISTRICTS  
Week ending the 2nd day of October, 1869.

SALFORD.					HULME.			CHORLTON.		ARDWICK.		PENDLETON & PENDLEBURY.				Area in Statute Acres. Population in 1861.		DEATHS.		
..... 1,329 .....					..... 477 .....			..... 646 .....		508.		..... 2650 .....							..... 24,448 .....	
..... 70,967 .....					..... 68,209 .....			..... 44,850 .....		21739										
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.		Poor Law District.		Ardwick & Ancoats Dispensary.		Chorlton Union Workhouse.		Total.			Corresponding Week last Year.	
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.								
17	18	19	20	21	22	23	24	25	26	27	28	29								
4	..	..	2	..	..	..	..	..	..	..	..	..	10	1	Small-pox .....	..				
..	..	..	..	..	..	..	..	..	..	..	..	1	13	6	Measles .....	1				
..	..	..	..	..	..	1	..	1	..	..	..	..	9	59	Scarlet Fever. ....	1				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..				
..	1	..	1	..	..	..	..	..	1	..	..	1	19	..	Whooping-cough ....	..				
..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	Croup .....	1				
1	3	..	5	3	..	1	1	1	3	1	..	4	81	91	Diarrhoea .....	3				
..	..	..	1	..	..	..	..	1	..	..	..	..	2	1	Dysentery .....	..				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..				
..	..	1	..	..	..	..	..	..	..	..	..	..	8	6	Erysipelas .....	..				
..	2	2	1	..	..	..	..	..	..	..	..	1	11	47	Continued Fever ....	..				
..	..	..	1	..	..	..	..	1	4	..	..	6	25	55	Typhus .....	1				
..	..	..	..	..	..	..	..	1	..	..	..	1	7	21	Enteric or Typhoid ..	..				
..	..	..	3	..	..	3	2	..	2	..	4	..	46	68	Febricula .....	..				
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	Ague .....	..				
..	..	1	..	..	1	..	..	1	1	1	2	..	15	16	Rheumatic Fever ....	..				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....	..				
1	5	3	27	..	2	2	..	2	12	2	1	3	141	181	Bronchitis & Catarrh	2				
..	..	..	..	..	..	..	..	..	..	..	..	..	1	10	Influenza .....	..				
..	..	..	3	..	..	..	..	..	..	..	..	2	9	26	Pleurisy & Pneumonia.	1				
..	1	1	15	..	..	..	..	1	4	..	2	3	67	79	Phthisis .....	4				
..	..	..	4	..	..	1	2	3	..	..	..	4	33	30	Constitutional Syphilis	1				
4	9	17	97	4	6	4	2	14	27	3	22	33	711	752	All other diseases ....	18				
2	..	..	75	1	..	..	..	4	16	..	25	1	278	360	Accidents .....	4				
12	21	25	235	8	9	12	7	30	70	7	56	60	1488	1810	TOTAL ..	37				

debted for the annexed Returns.

- (17) Dr. T. M. JOHNSON,  
(18) „ JAMES CRAN.  
(19)  
(20) Mr. A. VEITCH  
(21) Dr. BRADDON,

(22) Mr. S. WOODCOCK,  
(23) Dr. ALEX. WILSON,  
(24) Mr. H. M. WILLIAMSON.  
(25) „ JOSEPH FOSTER,

(26) Mr. JOHN PORTER,  
(27) „ J.V.L. WESTMACOTT,  
(28) „ R. P. O. GORMAN,  
(29) „ GEORGE CLEMENTS.

the report of the Association, and has, as far as practicable, been taken into account in the conclusion drawn from the weekly returns.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bowel.	Regent-rd. Dis., Mr. Tiptle.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	1	..	..	1	..	..	..	..	..	2	1
Measles .....	..	2	..	..	..	..	1	..	1	..	..	4	3
Whooping-cough.....	..	1	..	..	..	..	..	..	1	..	..	2	1
Scarlatina .....	2	3	..	..	..	..	..	..	..	1	..	6	61
Diarrhœa .....	9	2	1	2	2	1	6	..	3	5	1	32	48
Fever .....	3	3	1	..	..	2	2	..	3	1	..	15	27
Diseases of the Lungs	9	4	3	..	7	3	5	1	4	6	2	44	27
Other causes.....	12	14	11	4	2	12	18	13	7	10	9	112	109
TOTAL NO. OF DEATHS.	35	29	17	6	11	19	32	14	19	23	12	217	287
TOTAL NO. OF BIRTHS.	39	46	15	10	8	29	31	17	26	97	23	341	339

## Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 29th May.	1 Weeks ending 26th June.	5 Weeks ending 31st July.	TOTAL.	DISEASES.	4 Weeks ending 29th May.	4 Weeks ending 26th June.	5 Weeks ending 31st July.	TOTAL
10	7	3	20	..... Small-pox .....	47	48	44	139
31	24	51	107	..... Measles .....	82	82	92	256
33	46	64	143	..... Scarlet Fever.....	54	60	85	199
5	7	4	16	..... Diphtheria .....	..	..	..	..
70	113	86	274	..... Whooping-cough .....	19	29	43	91
2	2	4	8	..... Croup .....	1	3	1	5
206	338	1467	2011	..... Diarrhœa .....	132	159	533	824
..	2	9	11	..... Dysentery .....	1	6	13	20
..	..	1	1	..... Malignant Cholera.....	..	1	..	1
29	18	19	6	..... Erysipelas .....	22	14	21	57
11	12	17	60	..... Continued Fever .....	47	41	47	135
..	..	2	42	..... Typhus .....	51	57	67	175
1	4	3	8	..... Enteric or Typhoid .....	29	12	19	60
40	47	64	151	..... Febricula .....	114	169	157	440
1	4	2	7	..... Ague .....	..	1	..	1
47	34	56	137	..... Rheumatic Fever.....	65	73	65	203
..	..	..	..	..... Puerperal Fever .....	..	1	..	1
613	560	573	1746	..... Bronchitis and Catarrh .....	669	643	688	2000
6	4	7	17	..... Influenza.....	1	4	12	17
34	37	34	105	..... Pleurisy and Pneumonia .....	72	73	93	238
84	92	104	280	..... Phthisis.....	227	268	360	855
16	23	24	63	..... Constitutional Syphilis .....	116	122	162	400
3322	3585	4536	11443	.... Accidents, and all other Diseases.....	3579	3924	4766	12269
4562	4964	7130	16656	TOTAL	5328	5790	7268	18386

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Salford Meteorologl. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. T. THOMPSON, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Height of barometer cistern above sea level .....	108 ft.	123 ft.	145 ft.	251 ft.	43 ft.
<b>Barometer.</b>	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level .....	29.708	29.716	29.708	29.692	29.693
Highest.....	29.883	29.896	29.883	29.786	29.974
Lowest .....	29.457	29.448	29.457	29.324	29.542
Range .....	0.426	0.448	0.426	0.462	0.432
<b>Temperature.</b>					
Adopted Mean .....	57.5	56.9	57.0	56.7	58.1
Range for Week .....	21.9	22.7	23.6	21.4	25.4
Daily Range .....	11.3	13.2	13.3	11.7	13.4
Maximum in Shade .....	70.1	68.5	68.1	68.9	68.8
Minimum in Shade .....	49.2	45.3	45.5	47.5	43.4
Temperature of Dew Point .....	50.0	51.5	52.2	49.8	51.8
<b>Hygrometrical condition of the Atmosphere.</b>					
Degree of Humidity (Saturation—1,000).....	GRS. 0.761	GRS. 0.822	GRS. 0.840	GRS. 0.774	GRS. 0.795
Prevailing Winds .....	SW,SE	SW,S,NE	SW,SE	S,SW,W	S,SE
Rain .....	1.443	1.455	1.459	1.378	1.455
<b>Ozonometer.</b>					
Moffat .....	0.57	1.43	2.14	....	....
Schonbein .....	....	0.29	....	7.57	....



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, OCTOBER 9, 1869

No. 480.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, October the 9th, 1461 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1488, and in the corresponding week of last year it was 1728. The deaths in public practice during the week amounted to 52, being at the rate of 1 death to every 28 cases.

There is no decrease in the cases of Small-Pox; 11 cases were observed during the week, being one more than in the preceding return. Two of the cases occurred in Manchester, 5 in Salford, 1 in Hulme, and 3 in Chorlton.

There is a marked decrease in the number of the cases of Measles, 5 being returned instead of 13; 4 of these were observed in Manchester and 1 in Chorlton.

The returns of Scarlatina have of late been fluctuating; on the whole, however, this disease seems to be declining. The numbers for the last three weeks were 14, 9, and 13.

The cases of Whooping-Cough have fallen from 19 to 15; 10 of these cases were treated at the Children's Hospital.

Diarrhœa and Dysentery are steadily decreasing in prevalency; the numbers for the last three weeks were 114, 83, and 65.

The Fever return is not satisfactory, the number having risen from 41 to 54. Nineteen of these were assigned to Continued Fever, 20 to Typhus, and 15 to Typhoid Fever. This return, however, bears favourable comparison with that of the corresponding week of last year, which was 142.

The cases of Bronchitis and other acute chest diseases have risen from 151 to 176.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 204 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Forty-eight deaths were caused by Diseases of the Lungs, 28 by Diarrhœa, 14 by Fever, and 7 by Measles.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 56.7°; at the Salford Observatory it was 57.6°; at Eccles 56.8°; and at Old Trafford 56.4°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.







SANITARY ASSOCIATION.

ONS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 9th day of October, 1869.

SALFORD.					HULME.			CHORLTON.		ARDWICK.		PENDLETON & PENLEBURY.						
..... 1,329 .....					..... 477.....			.. 646...		508.		..... 2650.....					Area in Statute Acres.	
..... 70,967. ....					.. 68,209. ..			.. 44,850..		21739		..... 24,448 .....					Population in 1861.	
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS											Corresponding Week last Year.	DISEASES.	DEATHS.
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.					
17	18	19	20	21	22	23	24	25	26	27	28	29						
..	..	5	..	..	..	..	1	..	..	..	..	3	11	3	Small-pox .....	..	..	
..	..	..	..	..	..	..	..	..	..	..	..	1	5	1	Measles .....	..	..	
..	..	..	2	..	..	..	..	..	..	..	2	1	13	88	Scarlet Fever. ....	1	1	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	Diphtheria .....	..	..	
..	..	..	..	..	..	..	..	..	2	..	..	..	15	..	Whooping-cough ....	..	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..	..	
..	1	..	3	7	..	..	2	2	5	..	..	2	61	65	Diarrhœa .....	6	6	
..	..	..	..	..	..	..	..	..	..	..	..	..	4	2	Dysentery .....	..	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..	..	
..	..	..	..	..	..	1	..	..	..	..	..	1	2	9	Erysipelas .....	..	..	
..	..	2	3	..	1	62	..	..	..	2	..	..	19	56	Continued Fever ....	..	..	
..	..	..	2	..	..	..	..	61	2	..	..	2	20	63	Typhus .....	8	8	
..	..	..	1	..	..	..	..	62	..	..	..	1	15	23	Enteric or Typhoid ..	1	1	
..	2	..	3	1	..	..	3	3	4	..	..	3	34	59	Febricula .....	..	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..	..	
..	..	1	..	1	..	..	..	..	..	2	..	..	7	12	Rheumatic Fever ....	..	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Puerperal Fever.....	..	..	
1	1	2	38	2	2	2	2	3	13	2	3	10	166	225	Bronchitis & Catarrh	5	5	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	Influenza .....	..	..	
..	..	..	4	..	..	..	..	..	..	..	2	..	10	20	Pleurisy & Pneumonia.	1	1	
2	1	1	11	..	1	..	..	1	4	1	4	5	76	56	Phthisis .....	7	7	
..	..	..	7	2	1	..	..	2	..	..	..	6	47	40	Constitutional Syphilis	2	2	
7	6	13	98	1	5	4	1	15	33	5	22	42	700	740	All other diseases ....	16	16	
3	..	..	61	..	..	..	..	1	14	..	26	3	256	253	Accidents .....	5	5	
13	11	24	233	14	10	9	9	30	77	12	59	80	1461	1728	TOTAL ..	52	52	

ndeighted for the annexed Returns.

(17) Dr. T. M. JOHNSON,	(22) Mr. S. WOODCOCK,	(26) Mr. JOHN PORTER,
(18) „ JAMES CRAN.	(23) Dr. ALEX. WILSON,	(27) „ J.V.L.WESTMACOTT,
(19) „	(24) Mr. H. M.WILLIAMSON.	(28) „ R. P. O. GORMAN,
(20) Mr. A. VEITCH	(25) „ JOSEPH FOSTER,	(29) „ GEORGE CLEMENTS.
(21) Dr. BRADDON,		

he report of the Association, and has, as far as practicable, been taken into account in the conclusion  
wn from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District. Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomson.	Greengate Dis., Mr. Bowd.	Regent-rd. Dis., Mr. Phipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tushp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	1	1	1	1	1	1	1	1	1	1	1	1	1
Measles .....	1	1	1	1	1	1	1	1	1	1	1	1	1
Whooping-cough.....	1	1	1	1	1	1	1	1	1	1	1	1	1
Scarlatina .....	1	1	1	1	1	1	1	1	1	1	1	1	1
Diarrhœa .....	1	1	1	1	1	1	1	1	1	1	1	1	1
Fever .....	1	1	1	1	1	1	1	1	1	1	1	1	1
Diseases of the Lungs	1	1	1	1	1	1	1	1	1	1	1	1	1
Other causes.....	1	1	1	1	1	1	1	1	1	1	1	1	1
TOTAL NO. OF DEATHS.	32	28	24	7	11	12	30	14	16	22	8	204	290
TOTAL NO. OF BIRTHS.	46	52	16	20	19	20	22	22	29	43	19	314	288

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 26th June.	5 Weeks ending 31st July.	4 Weeks ending 28th August.	TOTAL.	DISEASES.	4 Weeks ending 26th June.	5 Weeks ending 31st July.	4 Weeks ending 28th August.	TOTAL
7	3	5	15	Small-pox .....	48	44	24	116
24	51	39	114	Measles .....	82	92	39	213
46	64	59	169	Scarlet Fever.....	60	85	54	199
7	4	1	12	Diphtheria .....	1	1	3	3
118	86	78	282	Whooping-cough .....	29	43	32	104
2	4	5	11	Croup .....	3	1	6	10
338	1467	1250	3055	Diarrhœa .....	159	533	629	1321
2	9	4	15	Dysentery .....	6	13	24	43
1	1	1	3	Malignant Cholera.....	1	1	1	3
18	19	13	50	Erysipelas .....	14	21	17	52
12	17	20	49	Continued Fever .....	41	47	54	142
1	2	2	5	Typhus .....	57	67	55	179
4	3	6	13	Enteric or Typhoid .....	12	19	28	59
47	64	55	166	Febricula .....	169	157	147	473
4	2	1	7	Ague .....	1	1	1	3
34	56	43	133	Rheumatic Fever.....	73	65	21	159
1	1	1	3	Puerperal Fever.....	1	1	1	3
560	573	424	1557	Bronchitis and Catarrh .....	643	688	465	1796
4	7	1	12	Influenza.....	4	12	1	17
37	34	34	105	Pleurisy and Pneumonia .....	73	93	59	225
92	104	79	275	Phthisis.....	263	360	283	911
23	24	29	76	Constitutional Syphilis .....	122	162	134	418
3585	4586	3561	11682	Accidents, and all other Diseases.....	3924	4766	3805	12495
4964	7130	5708	17802	TOTAL	5790	7268	5880	18938

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Salford Meteorolog. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Height of barometer cistern above sea level .....	108 ft.	123 ft.	145 ft.	251 ft.	43 ft.
Barometer.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level .....	30.139	30.154	30.139	30.139	30.129
Highest.....	30.161	30.173	30.161	30.048	30.210
Lowest .....	29.835	29.808	29.835	29.710	29.914
Range .....	0.326	0.365	0.326	0.338	0.326
Temperature.					
Adopted Mean .....	57.6	56.4	56.8	55.1	55.9
Range for Week .....	29.6	32.0	33.1	25.1	30.3
Daily Range .....	13.2	17.0	16.1	11.9	17.9
Maximum in Shade .....	74.1	75.0	75.5	71.3	72.8
Minimum in Shade .....	44.5	43.0	42.4	46.2	42.5
Temperature of Dew Point .....	51.2	50.6	53.0	49.4	52.2
Hygrometrical condition of the Atmosphere	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000).....	0.816	0.810	0.870	0.817	0.876
Prevailing Winds .....	S.E.S	S.E	S.E.S	SW	ESE
Rain .....	0.577	0.733	0.807	1.528	0.322
Ozonometer.					
Moffat .....	....	....	0.57	....	....
Schenbein .....	....	....	....	5.14	....



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, OCTOBER 16, 1869.

No. 481.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, October the 16th, 1471 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1461, and in the corresponding week of last year it was 1558. The deaths in public practice during the week amounted to 58, being at the rate of 1 death to every 25 cases.

There is a decided improvement in the Small-Pox return, 3 cases being reported instead of 11; 1 of these occurred in Manchester, and 2 in Chorlton.

Measles is very prevalent in the Township of Manchester; 20 cases were observed during the week, 19 in Manchester and 1 in Salford.

Though Scarlatina is becoming more and more prevalent in other large towns it is declining in Manchester and Salford, the number of cases having fallen from 13 to 8; 1 of these occurred in Manchester, 3 in Salford, 1 in Ardwick, and 3 in Chorlton. In the corresponding week of last year the number was 53.

There is a slight decrease in the cases of Whooping-Cough, the numbers for the last three weeks being 19, 15 and 12.

There is a considerable decrease in the cases of Fever, the number having fallen from 54 to 37; 18 of these were assigned to Continued Fever, 12 to Typhus, and 7 to Typhoid Fever. In the corresponding week of last year the number was 121.

The cases of Bronchitis and other acute chest diseases have risen from 176 to 187.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 245 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Sixty-three deaths were caused by Diseases of the Lungs, 20 by Diarrhœa, 12 by Fever, and 9 each by Scarlatina and Whooping-Cough.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 54.5°; at the Salford Observatory it was 54.6°; at Eccles 54.4°; and at Old Trafford 54.4°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,

PALL MALL, MANCHESTER.



MANCHESTER AND SALE

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment D

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	,, ,, 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	Workhouse. 7	ROYAL INFIRMARY					CHILDREN		15
									In- patients. 8	Out- patients. 9	District I. 10	District II 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	
Small-pox .....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Measles .....	..	..	4	..	3	8	15	..	..	..	..	2	1	..	1	..
Scarlet Fever .....	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	1	..	..	1	..	..	..	..	..	..	6	2	..
Croup .....	..	1	..	..	..	..	1	..	..	..	..	..	..	..	1	..
Diarrhœa.....	1	2	1	..	1	3	8	2	..	3	..	2	..	14	11	..
Dysentery .....	..	..	..	..	..	1	1	..	..	..	..	..	..	1	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	1	..	..	..	1	..	..	1	..	..	..	..	..	..
Continued Fever.....	a1	..	..	..	a2	..	3	2	..	..	..	..	..	1	..	..
Typhus .....	..	..	..	..	..	1	1	5	..	..	..	..	..	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Febricula.....	1	..	..	..	..	1	2	..	1	..	1	1	2	7	2	..
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	1	..	1	..	..	6	3	2	2	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	3	3	3	3	2	8	22	6	2	28	..	1	4	6	12	..
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	..	..	..	1	..	..	1	1	..	3	..	..	1	..	3	..
Phthisis .....	..	1	..	..	..	1	2	8	..	15	..	1	1	2	1	..
Constitutional Syphilis .....	1	..	..	..	..	4	5	7	..	3	1	..	..	..	1	..
All other Diseases .....	25	9	13	7	7	14	75	67	32	126	3	1	6	75	95	..
Accidents .....	..	1	..	..	..	3	4	3	19	119	1	1	1	..	..	..
TOTAL .....	32	17	22	12	16	45	144	102	54	304	9	11	18	112	129	17

a Removed to Workhouse.

Medical Officers to whom the Association

- (1) Mr. R. M. MANN.

(2) „ J. BROADBENT,

(3) „ EDWARD MEACHAM,

(4) „ JOHN WALSH.
- (5) Mr. OCTAVIUS DEAN,

(6) Dr. LEDWARD,

(7) Mr. J. WESTMORELAND,

(8) „ J. P. SLEIGHTHOLME,
- (9) } Mr. C. CURRIE RITCHIE,

(10) } „ W. H. CARRUTHERS,

(11) } „ H. O. PILKINGTON.

(12) }
- (13) Mr. H. RUNCOR.

(14) „ W. M. MACC.

(15) „ J. OGDEN F.

(16) Dr. A. C. CLARK

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

CTIONS OF MANCHESTER AND ADJOINING DISTRICTS  
 Week ending the 16th day of October, 1869.

SALFORD.					BULME.			CHORLTON.		ARDWICK.		PENDLETON & PENDLEBURY.			Area in Statute Acres. Population in 1861.		DEATHS.			
..... 1,329 .....					..... 477 .....			.. 646 ..		508.		..... 2650 .....			..... 24,148 .....					
..... 70,967 .....					.. 68,209 ..			.. 44,850 ..		21739										
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.		Poor Law District.		Ardwick & Ancoats Dispensary.		Chorlton Union Workhouse.		Total.		Corresponding Week last Year.		DISEASES.
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's.	Poor Law District.	Dispensary.	Poor Law District.	Dispensary.	Poor Law District.	Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	DEATHS.		
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	
..	..	..	..	..	..	..	..	..	..	..	..	2	3	1	Small-pox .....	1	1	1	1	
..	..	..	1	..	..	..	..	..	..	..	..	..	20	11	Measles .....	1	1	1	1	
..	..	..	3	..	..	..	..	1	..	..	1	2	8	53	Scarlet Fever .....	1	1	1	1	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..	..	..	..	
..	..	..	..	..	..	..	..	..	3	..	..	..	12	..	Whooping-cough ....	..	..	..	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	Croup .....	1	1	1	1	
..	..	..	5	4	..	..	2	..	4	..	1	3	67	46	Diarrhœa .....	3	3	3	3	
..	..	..	..	..	..	..	..	1	..	..	..	..	3	1	Dysentery .....	..	..	..	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..	..	..	..	
..	..	..	..	..	..	..	..	..	..	..	..	1	4	10	Erysipelas .....	..	..	..	..	
..	..	2	4	..	2	..	..	..	..	1	2	1	18	51	Continued Fever ....	1	1	1	1	
..	..	..	1	..	..	..	..	..	1	..	..	3	12	49	Typhus .....	3	3	3	3	
..	..	..	2	..	1	..	..	..	..	..	..	1	7	21	Enteric or Typhoid ..	2	2	2	2	
..	1	..	2	1	1	..	3	..	5	..	1	2	34	41	Febricula .....	..	..	..	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..	..	..	..	
..	..	..	..	..	1	..	..	..	..	2	2	..	20	20	Rheumatic Fever ....	..	..	..	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever .....	..	..	..	..	
1	5	..	40	1	1	1	1	6	12	2	5	9	172	214	Bronchitis & Catarrh ..	6	6	6	6	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	Influenza .....	..	..	..	..	
..	..	..	3	..	..	..	..	..	..	..	..	..	15	21	Pleurisy & Pneumonia ..	2	2	2	2	
..	2	..	9	..	..	..	2	3	3	..	2	4	57	64	Phthisis .....	11	11	11	11	
3	2	..	5	..	..	..	1	5	..	..	1	3	39	30	Constitutional Syphilis ..	..	..	..	..	
4	14	5	76	2	5	5	4	16	35	4	13	49	731	697	All other diseases ....	25	25	25	25	
..	..	..	55	..	1	..	..	4	11	..	25	3	247	216	Accidents .....	1	1	1	1	
8	24	7	206	8	12	6	13	16	74	9	53	83	1471	1558	TOTAL ..	58	58	58	58	

ndebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
 (18) „ JAMES CRAN.  
 (19)  
 (20) Mr. A. VEITCH  
 (21) Dr. BRADDON,

(22) Mr. S. WOODCOCK,  
 (23) Dr. ALEX. WILSON,  
 (24) Mr. H. M. WILLIAMSON.  
 (25) „ JOSEPH FOSTER,

(26) Mr. JOHN PORTER,  
 (27) „ J. V. L. WESTMACOTT,  
 (28) „ R. P. O. GORMAN,  
 (29) „ GEORGE CLEMENTS.

he report of the Association, and has, as far as practicable, been taken into account in the conclusion



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C.F. Johns.	Deansgate Dis., Mr. Thomson.	Greengate Dis., Mr. Bowei.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnsbp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	1	1	..	..	..	1	..	2	..
Measles .....	..	..	..	..	1	..	..	..	..	..	..	1	4
Whooping-cough .....	1	3	..	..	..	2	..	..	2	1	..	9	1
Scarlatina .....	3	2	1	..	..	..	..	..	2	1	..	9	52
Diarrhoea .....	3	3	1	..	2	2	..	2	1	5	1	20	17
Fever .....	..	1	6	..	..	3	1	..	1	..	..	12	34
Diseases of the Lungs .....	8	8	3	4	4	9	5	2	3	15	2	63	53
Other causes .....	14	13	19	8	4	13	21	8	12	9	8	129	144
TOTAL NO. OF DEATHS.	29	30	30	12	11	30	27	12	21	32	11	245	305
TOTAL NO. OF BIRTHS.	40	33	22	16	17	31	27	14	40	57	18	315	305

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 31st July.	4 Weeks ending 28th August	1 Weeks ending 25th Sept.	TOTAL.	DISEASES.	5 Weeks ending 31st July.	4 Weeks ending 28th August.	4 Weeks ending 25th Sept.	TOTAL
3	5	5	13	..... Small-pox .....	44	24	24	92
51	39	27	117	..... Measles .....	92	39	39	170
64	59	93	219	..... Scarlet Fever .....	85	54	64	203
4	1	..	5	..... Diphtheria .....	..	3	..	3
86	78	51	215	..... Whooping-cough .....	43	32	43	118
4	5	4	13	..... Croup .....	1	6	2	9
1467	1250	785	3502	..... Diarrhoea .....	533	629	444	1606
9	4	3	16	..... Dysentery .....	13	24	13	50
1	..	..	1	..... Malignant Cholera .....	..	..	..	..
19	13	24	56	..... Erysipelas .....	21	17	18	56
17	20	28	65	..... Continued Fever .....	47	54	48	149
2	2	1	5	..... Typhus .....	67	55	53	180
3	6	10	19	..... Enteric or Typhoid .....	19	28	47	94
64	55	46	165	..... Febricula .....	157	147	119	423
2	1	2	5	..... Ague .....	..	1	1	2
56	43	38	137	..... Rheumatic Fever .....	65	21	34	120
..	..	..	..	..... Puerperal Fever .....	..	..	1	1
573	424	477	1474	..... Bronchitis and Catarrh .....	688	465	520	1673
7	..	..	7	..... Influenza .....	12	..	1	13
34	34	32	100	..... Pleurisy and Pneumonia .....	93	59	56	208
104	79	89	272	..... Phthisis .....	360	283	253	901
24	29	19	72	..... Constitutional Syphilis .....	162	134	131	427
4536	3561	3578	11675	.... Accidents, and all other Diseases .....	4766	3305	3833	12404
7130	5708	5315	18153	TOTAL	7268	5880	5754	18902

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Salford Meteorologi. Observatory, T. Mackereth, Esq.	Old Trafford, G.V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. T. THOMPSON, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Height of barometer cistern above sea level .....	108 ft.	123 ft.	145 ft.	251 ft.	43 ft.
<b>Barometer.</b>	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level .....	29.903	29.914	29.903	29.906	29.895
Highest .....	30.125	30.107	30.125	30.002	30.180
Lowest .....	29.215	28.972	29.215	29.026	29.264
Range .....	0.910	1.135	0.910	0.976	0.916
<b>Temperature.</b>					
Adopted Mean .....	54.6	54.4	54.4	54.2	55.6
Range for Week .....	28.6	31.0	31.7	28.6	29.2
Daily Range .....	9.3	13.4	12.8	10.3	11.9
Maximum in Shade .....	72.7	74.0	74.5	71.2	73.7
Minimum in Shade .....	44.1	43.0	42.3	42.6	44.5
Temperature of Dew Point .....	49.5	50.6	50.9	49.6	50.4
<b>Hygrometrical condition of the Atmosphere.</b>					
Degree of Humidity (Saturation—1,000) .....	GRS. 0.824	GRS. 0.871	GRS. 0.878	GRS. 0.836	GRS. 0.834
Prevailing Winds .....	W, SW	SW, S	W, SW	....	SNW
Rain .....	1.197	1.230	1.090	0.657	0.524
<b>Ozonometer.</b>					
Moffat .....	0.42	3.43	4.28	....	....
Schonbein .....	....	0.71	....	7.14	....



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, OCTOBER 23, 1869.

No. 482.

#### DISEASES.—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, October the 23rd, 1514 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1471, and in the corresponding week of last year it was 1519. The deaths in public practice during the week amounted to 49, being at the rate of 1 death to every 30 cases.

Small-Pox still holds its ground. The number of cases has risen from 3 to 5; 4 of these occurred in the Township of Manchester and 1 in Salford.

There is an improvement in the return of Measles, 10 cases being reported instead of 20. This improvement is, however, confined to public practice, as there was an increase of 7 deaths from this disease during the week in the whole of Manchester and Salford.

The cases of Scarlatina have risen in number from 8 to 21; 13 of these occurred in Manchester, 2 in Salford, 1 in Hulme, 2 in Chorlton, and 3 in Ardwick.

Whooping-Cough now figures weekly in the return, and is becoming one of the most prominent of the zymotic class of diseases as a cause of death; 29 cases of this disease were observed in the public practice of the week.

Diarrhœa and Dysentery are declining in prevalency, the numbers for the last two weeks being 70 and 56.

The Fever return is unsatisfactory, 57 cases of the severer forms having occurred during the week; 24 were assigned to Continued Fever, 23 to Typhus, and 10 to Typhoid Fever. Chorlton contributed 18 cases, next in order comes Salford with 16 cases, then Manchester with 14, and lastly Hulme and Ardwick with 6 and 3 cases respectively.

There is with the advance of the season a marked increase in the cases of Bronchitis and other acute chest diseases; 216 cases occurred during the week, being 29 more than in the preceding return.

#### DEATHS.—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 222 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Fifty-seven deaths were caused by Diseases of the Lungs, 19 by Diarrhœa, 14 by Scarlatina, 9 by Fever, and 8 each by Whooping Cough and Measles.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 42.7°; at the Salford Observatory it was 42.6°; at Eccles 42.1°; and at Old Trafford 42.0°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,  
PALL MALL, MANCHESTER.



# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS. New Cases of Disease coming under Treatment

MANCHESTER.																
Area in Statute Acres.....	Manchester Township 1,645 .....															
Population in 1861.....	" " 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	1	2	3	4	5	6	Total of Districts.	7	ROYAL INFIRMARY					CHILDREN		
									In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.	City Gaol.
Small-pox .....	..	..	..	a1	..	..	1	1	2	..	..	..	..	..	..	..
Measles .....	..	1	3	..	..	3	7	..	..	..	..	1	..	..	..	..
Scarlet Fever .....	1	1	..	..	2	..	4	..	2	..	..	b5	1	..	1	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	1	..	..	..	1	..	..	..	..	..	..	10	3	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	..	1	..	..	..	4	5	1	..	2	..	1	1	11	8	3
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	3	..	..	..	..	..	3	..	..	..	..	1	..	..	..	..
Continued Fever.....	a1	a1	2	..	..	..	4	3	..	..	..	..	..	..	..	..
Typhus .....	..	..	1	..	..	..	1	3	..	..	..	..	..	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	1	1	..	1	..	..	..	..	..
Febricula.....	..	..	..	..	..	..	..	1	2	3	..	1	5	2	2	2
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	1	..	..	2	2	2	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	5	3	1	10	2	16	37	6	..	25	..	1	8	4	14	4
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	..	..	..	..	..	1	1	..	..	..	..	..	..	..	3	1
Phthisis .....	..	1	..	..	1	1	3	6	..	19	1	..	2	3	1	1
Constitutional Syphilis .....	..	..	..	2	..	1	3	12	..	7	..	..	..	..	..	3
All other Diseases .....	13	9	17	12	5	14	70	43	17	126	8	4	4	72	68	..
Accidents .....	2	..	..	..	..	1	3	2	14	123	3	..	..	..	..	..
TOTAL .....	25	17	25	25	10	41	143	80	38	305	15	16	23	102	100	14

a Removed to Workhouse.

b 1 Sent to Infirmary Fever Ward.

c 2 Removed to Workhouse.

Medical Officers to whom the Association

- 1) Mr. R. M. MANN.  
 (2) " J. BROADBENT,  
 (3) " EDWARD MEACHAM,  
 (4) " JOHN WALSH.

- (5) Mr. OCTAVIUS DEAN,  
 (6) Dr. LEDWARD.  
 (7) Mr. J. WESTMORELAND,  
 (8) J. P. SLEIGHTHOLME,

- (9) }  
 (10) } Mr. C. CURRIE RITCHIE,  
 (11) } W. H. CARRUTHERS,  
 (12) } H. O. PILKINGTON.

- (13) Mr. H. RUNCORN  
 (14) " W. M. MACCA  
 (15) " J. OGDEN FL  
 (16) Dr. A. C. CLARKE

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse, and are then reported twice over this fact has several times been noticed







Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bowel.	Regent-rd. Dis., Mr. Tuppel.	Pendleton Dis., Mr. Bowker.	Charlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	1	..	..	..	..	..	..	..	..	1	..
Measles .....	..	5	..	1	..	..	..	..	1	..	..	8	1
Whooping-cough.....	..	2	..	..	..	3	..	..	1	1	1	8	1
Scarlatina .....	2	5	..	1	1	..	..	1	..	4	..	11	51
Diarrhoea .....	4	2	1	1	1	2	..	..	1	6	1	19	18
Fever .....	1	3	..	1	..	1	3	..	..	..	..	9	22
Diseases of the Lungs	6	9	10	1	3	4	3	3	5	11	2	57	76
Other causes.....	11	15	14	5	2	5	13	3	9	17	12	106	124
TOTAL NO. OF DEATHS.	24	41	26	10	7	15	20	7	17	39	15	224	293
TOTAL NO. OF BIRTHS.	37	54	8	18	20	34	41	13	36	53	23	337	303

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 31st July.	4 Weeks ending 28th August.	1 Weeks ending 25th Sept.	TOTAL.	DISEASES.	5 Weeks ending 31st July.	4 Weeks ending 28th August.	1 Weeks ending 25th Sept.	TOTAL
3	5	5	13	..... Small-pox .....	44	24	21	92
51	39	27	117	..... Measles .....	92	38	39	170
64	59	96	219	..... Scarlet Fever.....	85	54	64	203
4	1	..	5	..... Diphtheria .....	..	3	..	3
86	78	51	215	..... Whooping-cough .....	43	32	43	118
4	5	4	13	..... Croup .....	1	6	2	9
1467	1250	785	3502	..... Diarrhoea .....	533	629	444	1606
9	4	3	16	..... Dysentery .....	13	24	13	50
1	..	..	1	..... Malignant Cholera.....	..	..	..	..
19	13	24	56	..... Erysipelas .....	21	17	18	56
17	20	28	65	..... Continued Fever .....	47	54	48	149
2	2	1	5	..... Typhus .....	67	55	58	180
3	6	10	19	..... Enteric or Typhoid .....	19	28	47	94
64	55	46	165	..... Febricula .....	157	147	119	423
2	1	2	5	..... Ague .....	..	1	1	2
56	43	38	137	..... Rheumatic Fever.....	65	21	34	120
..	..	..	..	..... Puerperal Fever .....	..	..	1	1
573	424	477	1474	..... Bronchitis and Catarrh .....	688	465	520	1673
7	..	..	7	..... Influenza.....	12	..	1	13
31	34	32	100	..... Pleurisy and Pneumonia .....	93	59	56	208
104	79	89	272	..... Phthisis.....	360	283	258	901
24	29	19	72	..... Constitutional Syphilis .....	162	134	131	427
4556	3561	3578	11675	.... Accidents, and all other Diseases.....	4766	3805	3833	12404
7130	5708	5315	18153	TOTAL	7268	5880	5754	18902

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Salford Meteorologl. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Height of barometer cistern above sea level .....	108 ft.	123 ft.	145 ft.	251 ft.	43 ft.
Barometer.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level .....	30.018	30.034	30.018	30.016	30.020
Highest.....	30.395	30.406	30.395	30.308	30.486
Lowest.....	29.277	29.296	29.277	29.150	29.362
Range .....	1.118	1.110	1.118	1.158	1.124
Temperature.					
Adopted Mean .....	42.6	42.0	42.1	41.9	44.8
Range for Week .....	21.6	25.9	30.0	28.1	27.1
Daily Range .....	11.1	16.1	15.5	15.8	11.7
Maximum in Shade .....	54.4	54.9	58.5	54.6	55.6
Minimum in Shade .....	32.8	29.0	28.5	26.5	28.5
Temperature of Dew Point .....	35.8	35.3	37.1	35.0	38.7
Hygrometrical condition of the Atmosphere	GRS.	GRS.	GRS.	GRS.	GRS.
Degree of Humidity (Saturation—1,000).....	0.773	0.780	0.843	0.781	0.792
Prevailing Winds .....	W,N	NW,N	W,N	W,NW	NNW
Rain .....	0.507	0.541	0.579	0.511	0.575
Ozonometer.					
Moffat .....	....	1.43	2.85	....	....
Schonbein .....	....	1.00	....	4.85	....



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, OCTOBER 30, 1869.

No. 483.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, October the 30th, 1616 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1514, and in the corresponding week of last year it was 1314. The deaths in public practice during the week amounted to 58, being in the proportion of 1 death to every 27 cases.

Small-Pox seems to be again on the increase, the number of cases for the last three weeks being 3, 5, and 8. These 8 cases were equally divided between the townships of Manchester and Salford. The weekly returns of this disease, extending over many months, indicate that the provisions of the Vaccination Act have been less thoroughly carried out in Manchester and Salford than in the other townships included in the weekly return.

The cases of Measles have risen in number from 10 to 19. Measles especially prevails in the township of Manchester, 16 out of the 19 cases reported having occurred there.

There is an improvement in the return of Scarlatina, 12 cases being reported instead of 21. Eight of these cases were observed in Manchester, 2 in Salford, and 1 each in Chorlton and Hulme. In the corresponding week of last year there were 44 cases.

The return of Whooping-Cough is not so high as it was in the previous week by 11 cases; 18 were observed, 10 in Manchester, 1 in Hulme, and 7 in Chorlton.

The Fever return still continues unsatisfactory; 60 cases occurred during the week. Twenty-four were assigned to Continued Fever, 25 to Typhus, and 11 to Typhoid Fever.

Notwithstanding the lower mean temperature of the week, there was a decrease in the number of cases of Bronchitis and other acute chest diseases; 197 cases were returned, being 19 less than in the preceding week.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 262 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Seventy-nine deaths were caused by Diseases of the Lungs, 18 by Diarrhœa, 13 by Scarlatina, 11 by Whooping-Cough, 10 by Fever, and 7 by Measles.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 40·0°; at the Salford Observatory it was 41·6°; at Eccles 40·8°; and at Old Trafford 40·0°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,  
PALM MALL, MANCHESTER.



# MANCHESTER AND SALES

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS New Cases of Disease coming under Treatment

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	,, ,, 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	ROYAL INFIRMARY					CHILDREN		
	1	2	3	4	5	6		7	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.	City Gaol.
Small-pox .....	..	..	..	..	..	..	..	..	3	..	..	..	a1	..	..	..
Measles .....	..	..	5	..	..	7	12	..	..	..	..	..	..	..	4	..
Scarlet Fever .....	..	..	1	..	1	3	5	..	1	..	..	..	..	1	1	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	1	..	..	..	..	..	1	..	..	..	..	..	..	6	3	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	1	3	..	1	..	2	7	..	..	6	..	..	1	11	4	3
Dysentery .....	..	..	..	..	..	2	2	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	2
Continued Fever.....	1	..	2	..	8	..	11	2	..	..	..	..	..	1	..	..
Typhus .....	..	..	..	a1	..	1	2	4	..	..	..	b1	1	..	..	..
Enteric or Typhoid .....	1	..	..	..	..	..	1	..	3	..	..	..	..	..	1	..
Febricula.....	2	..	..	..	..	2	4	1	..	..	..	2	8	6	1	1
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	1	1	..	1	1	..	1	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	5	8	2	8	2	6	31	8	..	13	..	4	2	9	14	3
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	1	..	..	..	..	1	2	1	..	2	..	..	..	..	2	..
Phthisis .....	..	1	..	1	..	..	2	5	2	29	2	1	4	..	..	..
Constitutional Syphilis .....	1	..	..	..	..	2	3	15	..	4	..	..	..	1	..	2
All other Diseases .....	20	8	23	9	1	10	71	64	23	128	6	3	9	69	72	4
Accidents .....	2	..	..	1	..	1	4	2	22	136	..	..	3	..	..	..
TOTAL .....	35	20	33	21	12	37	158	101	55	318	9	12	29	105	102	15

a Removed to Small Pox Ward

b Removed to Royal Infirmary.

c Removed to Workhouse.

Medical Officers to whom the Association

(1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9) Mr. C. CURRIE RITCHIE,	(13) Mr. H. RUNCORN.
(2) „ J. BROADBENT,	(6) Dr. LEDWARD.	(10) „ W. H. CARRUTHERS,	(14) „ W. M. MACCAJ
(3) „ EDWARD MEACHAM,	(7) Mr. J. WESTMORELAND,	(11) „ „ H. O. PILKINGTON.	(15) „ J. OGDEN FILL
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N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

## DISTRICTS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 30th day of October, 1869.

SALFORD.					RULME.			CHORLTON.		ARDWICK		PENDLETON & PENDLEBURY.			Area in Statute Acres. Population in 1861.		DEATHS.	
..... 1,329 .....					..... 477 .....			... 646 ...		508.		..... 2650 .....						
..... 70,967. ....					... 68,209. ...			... 44,850. ...		21739		..... 24,148 .....						
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District		Poor Law District.		Ardwick & Ancoats Dispensary.		Chorlton Union Workhouse.		Total.		Corresponding Week last Year.
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.					
17	18	19	20	21	22	23	24	25	26	27	28	29						
1	..	1	1	..	..	..	..	..	..	..	..	..	8	3	Small-pox .....	..		
..	..	..	2	..	..	..	..	..	..	..	1	..	19	5	Measles .....	1		
..	..	..	1	..	..	1	..	..	..	..	..	1	12	44	Scarlet Fever. ....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..		
..	..	..	..	..	1	..	..	3	4	..	..	..	18	1	Whooping-cough ....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Croup .....	..		
..	3	..	4	5	..	..	..	..	..	..	..	3	50	47	Diarrhoea .....	1		
..	..	..	..	..	..	..	..	..	..	..	..	..	2	4	Dysentery .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	3	9	Erysipelas .....	..		
..	..	2	2	..	..	2	1	..	..	..	1	2	24	55	Continued Fever ....	..		
..	..	..	2	..	..	..	..	46	..	..	..	9	25	45	Typhus .....	3		
3	..	..	3	..	..	..	..	..	..	..	..	..	11	18	Enteric or Typhoid ..	3		
..	..	..	6	1	2	..	2	3	7	..	4	1	49	55	Febricula .....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Ague .....	..		
..	..	..	33	..	..	..	..	1	..	..	..	..	39	16	Rheumatic Fever ....	..		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Puerperal Fever .....	..		
12	5	3	..	8	4	3	2	8	20	4	6	20	184	256	Bronchitis & Catarrh	7		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	Influenza .....	..		
1	..	..	3	..	..	..	..	..	..	..	..	1	13	37	Pleurisy & Pneumonia.	..		
3	..	2	8	..	2	..	1	..	5	1	2	4	75	62	Phthisis .....	14		
2	..	..	8	..	..	1	2	2	..	..	..	5	46	45	Constitutional Syphilis	..		
16	11	20	96	1	5	6	8	13	45	4	17	60	761	699	All other diseases ....	24		
1	1	..	61	..	2	..	..	1	17	..	25	1	277	200	Accidents .....	5		
39	20	28	130	15	16	13	16	37	98	9	56	107	1616	1614	TOTAL... ..	58		

removed to Workhouse.

debited for the annexed Returns.

(17) Dr. T. M. JOHNSON,	(22) Mr. S. WOODCOCK,	(26) Mr. JOHN PORTER,
(18) „ JAMES CRAN.	(23) Dr. ALEX. WILSON,	(27) „ J. V. L. WESTMACOTT,
(19) „	(24) Mr. H. M. WILLIAMSON.	(28) „ R. P. O. GORMAN,
(20) Mr. A. VEITCH	(25) „ JOSEPH FOSTER,	(29) „ GEORGE CLEMENTS.
(21) Dr. BRADLON,		

the report of the Association, and has, as far as practicable, been taken into account in the conclusion drawn from the weekly returns.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District. Mr. Royston.	St. George's Dis. Mr. Worthington.	Market-st. Dis., Mr. A. Gardner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomson.	Greengate Dis., Mr. Bowei.	Regent-rd. Dis., Mr. Tople.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Aradwick Tushp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	4	..	..	1	1	..	..	..	..	..	1	1
Measles .....	..	3	1	..	1	3	1	..	..	1	1	7	2
Whooping-cough.....	..	3	1	..	1	3	1	..	..	1	1	11	1
Scarlatina .....	3	3	1	..	..	..	1	..	1	4	..	13	46
Diarrhœa .....	4	2	1	..	1	..	2	2	..	6	..	18	10
Fever .....	..	2	2	1	..	1	1	..	2	1	..	11	31
Diseases of the Lungs	13	9	12	6	7	6	7	2	3	12	2	79	51
Other causes.....	11	15	18	8	8	7	18	10	4	19	5	123	111
<b>TOTAL NO. OF DEATHS.</b>	<b>31</b>	<b>38</b>	<b>35</b>	<b>15</b>	<b>18</b>	<b>19</b>	<b>31</b>	<b>14</b>	<b>10</b>	<b>43</b>	<b>8</b>	<b>261</b>	<b>253</b>
<b>TOTAL NO. OF BIRTHS.</b>	<b>49</b>	<b>43</b>	<b>9</b>	<b>15</b>	<b>18</b>	<b>21</b>	<b>42</b>	<b>21</b>	<b>33</b>	<b>57</b>	<b>23</b>	<b>331</b>	<b>283</b>

## Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
 Medical Officer of Health, John Whitmore, M.D.  
 Population in 1861, 161681.

At Pauper, Charitable, and Public Institutions in  
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 Population in 1861, 390,815.

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64	59	93	219	..... Scarlet Fever.....	85	54	64	203
4	1	..	5	..... Diphtheria .....	..	3	..	3
86	78	51	215	..... Whooping-cough .....	43	32	43	118
4	5	4	13	..... Croup .....	1	6	2	9
1467	1250	785	3502	..... Diarrhœa .....	533	629	444	1606
9	4	3	16	..... Dysentery .....	13	24	13	50
1	..	..	1	..... Malignant Cholera.....	..	..	..	..
19	13	24	56	..... Erysipelas .....	21	17	18	56
17	20	23	65	..... Continued Fever .....	47	54	48	149
2	2	1	5	..... Typhus .....	67	55	58	180
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64	55	46	165	..... Febricula .....	157	147	119	423
2	1	2	5	..... Ague .....	..	1	1	2
56	43	38	137	..... Rheumatic Fever.....	65	21	34	120
..	..	..	..	..... Puerperal Fever .....	..	..	1	1
573	424	477	1474	..... Bronchitis and Catarrh .....	688	455	520	1673
7	..	..	7	..... Influenza.....	12	..	1	13
31	34	32	109	..... Pleurisy and Pneumonia .....	93	59	56	208
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4556	3561	3578	11675	.... Accidents, and all other Diseases.....	4766	3805	3833	12404
7130	5708	5315	18153	<b>TOTAL</b>	7268	5880	5754	18902

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	Salford Meteorologl. Observatory, T. Mackereth, Esq.	Old Trafford, G.V. VERNON, Esq	Eccles, T.MACKERETH Esq	Wilmslow, J. THOMPSON, Esq	Penketh, Warrington L.W. Reynolds Esq.
Height of barometer cistern above sea level .....	108 ft.	123 ft.	145 ft.	251 ft.	43 ft.
<b>Barometer.</b>	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level .....	30.053	30.072	30.053	30.070	
Highest.....	30.181	30.200	30.181	30.084	
Lowest .....	29.737	29.760	29.737	29.650	
Range .....	0.444	0.440	0.444	0.434	
<b>Temperature.</b>					
Adopted Mean .....	41.6	40.0	41.8	39.0	
Range for Week .....	22.4	27.0	27.4	24.0	
Daily Range .....	9.9	15.2	12.8	13.5	
Maximum in Shade .....	54.2	55.0	56.4	51.9	
Minimum in Shade .....	31.8	28.0	29.0	27.9	
Temperature of Dew Point .....	32.5	33.3	34.5	32.4	
<b>Hygrometrical condition of the Atmosphere.</b>					
Degree of Humidity (Saturation—1,000).....	GRS. 0.705	GRS. 0.776	GRS. 0.784	GRS. 0.784	
Prevailing Winds .....	NW	NW	NW	W NW	
Rain .....	0.632	0.533	0.552	0.365	
<b>Ozonometer.</b>					
Moffat .....	....	....	1.57	....	
Schonbein .....	....	....	....	2.00	



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, NOVEMBER 6, 1869.

No. 484.

**DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, November the 6th, 1592 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1616, and in the corresponding week of last year it was 1528. The deaths in public practice during the week amounted to 44, being in the proportion of 1 death to every 36 cases.

There is this week a decrease in the cases of Small-Pox, the number having fallen from 8 to 3. One case each was observed in Manchester, Salford, and Chorlton.

There is also an improvement under Measles, 10 cases being returned instead of 19; 7 of these 10 cases occurred in Manchester and 3 in Salford.

The cases of Scarlatina have risen from 12 to 19. The increase occurred in the Township of Manchester, where this disease is especially prevalent. Last week there were 8 cases in that Township against 4 in the other four Townships, this week there were 15 against 4 in Salford; the public practice of the three Townships of Hulme, Chorlton, and Ardwick being free from the disease.

Whooping-Cough is on the increase, the cases have risen in number from 18 to 33; 21 cases were observed in Manchester, 4 in Salford, and 8 in Chorlton.

There is but a slight improvement in the Fever return, 56 cases being reported instead of 60; 20 cases were assigned to Continued Fever, 21 to Typhus, and 15 to Typhoid Fever.

The cases of Bronchitis and other acute chest diseases have risen from 197 to 302.

**DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 229 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Seventy-two deaths were caused by Diseases of the Lungs, 12 each by Scarlatina and Whooping-Cough, and 10 by Fever.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 46·6°; at the Salford Observatory it was 48·0°; at Eccles 47·4°; and at Old Trafford 46·4°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,  
PALL MALL, MANCHESTER.



# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS. New Cases of Disease coming under Treatment

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	,, ,, 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	Workhouse. 7	ROYAL INFIRMARY.						CHILDREN	
									In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	City Gaol. 15
Small-pox .....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Measles .....	1	..	1	..	..	1	3	..	..	..	..	..	..	1	3	..
Scarlet Fever .....	..	..	1	..	..	2	3	1	2	..	1	3	2	2	1	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	3	1	..	..	..	..	4	..	..	..	..	..	..	10	7	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	1	..	1	..	1	1	4	2	..	3	..	..	..	7	10	3
Dysentery .....	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	1	..	..	..	..	1	2	2	..	..	..	..	..	..	..	..
Continued Fever.....	..	..	1	1	1	..	3	3	..	..	..	1	2	..	..	..
Typhus .....	..	..	..	..	1	..	1	1	1	..	..	..	..	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	3	..	..	..	..	1	..	1	..
Febricula.....	1	..	..	..	1	3	5	2	..	..	1	1	5	1	..	3
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	..	3	9	3	3	3	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	7	10	3	8	6	10	44	11	..	46	4	3	2	4	16	4
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	..	1	..	..	..	..	1	..	..	2	3	1	1	..	2	..
Phthisis .....	1	..	2	..	..	..	3	7	1	23	..	2	1	2	..	2
Constitutional Syphilis .....	1	..	..	..	..	2	3	18	..	4	..	..	..	1	1	4
All other Diseases .....	21	8	8	8	4	14	63	47	20	96	1	5	10	60	73	3
Accidents .....	1	..	2	2	..	2	7	5	16	103	2	1	..	..	..	..
TOTAL .....	38	20	19	19	14	36	146	113	43	287	16	20	27	88	114	19

a 1 Removed to Workhouse.      b Removed to Workhouse.      c 1 Sent to Fever Ward Royal Infirmary.

Medical Officers to whom the Association are indebted for their services.

- |                       |                           |                            |                       |
|-----------------------|---------------------------|----------------------------|-----------------------|
| (1) Mr. R. M. MANN.   | (5) Mr. OCTAVIUS DEAN,    | (9) Mr. C. CURRIE RITCHIE, | (13) Mr. H. RUNCORN   |
| (2) „ J. BROADBENT,   | (6) Dr. LEDWARD,          | (10) „ W. H. CARRUTHERS,   | (14) „ W. M. MACCA    |
| (3) „ EDWARD MEACHAM, | (7) Mr. J. WESTMORELAND,  | (11) „ H. O. PILKINGTON.   | (15) „ J. OGDEN FL    |
| (4) „ JOHN WALSH.     | (8) „ J. P. SLEIGHTHOLME, |                            | (16) Dr. A. C. CLARKE |

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

## REPORTS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 6th day of November, 1869.

SALFORD.					HULME.			CHORLTON.		ARDWICK.		PENDLETON & PENDLEBURY.					Area in Statute Acres. Population in 1861.		DEATHS.
..... 1,329 .....					..... 477 .....			.. 646...		508.		..... 2650.....							
..... 70,967. ....					.. 68,209. ..			.. 44,850..		21739									
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.				
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's												
17	18	19	20	21	22	23	24	25	26	27	28	29							
..	..	1	..	..	..	..	..	..	..	..	..	1	3	4	Small-pox .....	..			
..	..	..	3	..	..	..	..	..	..	..	..	..	10	6	Measles .....	..			
..	..	..	4	..	..	..	..	..	..	..	..	..	19	47	Scarlet Fever.....	2			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..			
..	..	1	2	..	..	..	..	1	7	..	..	..	33	..	Whooping-cough ....	3			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..			
..	2	..	..	4	..	..	..	..	..	..	..	5	40	44	Diarrhoea .....	..			
..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	Dysentery .....	..			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..			
..	..	1	..	1	..	..	..	..	..	..	1	1	8	6	Erysipelas .....	..			
2	..	3	3	..	..	..	1	..	..	..	..	2	20	42	Continued Fever ....	1			
..	..	..	2	..	1	..	..	2	..	..	..	3	21	47	Typhus .....	1			
..	..	..	4	..	..	..	..	2	..	..	..	2	15	22	Enteric or Typhoid ..	1			
..	..	..	6	..	..	2	..	..	8	1	2	2	41	55	Febricula .....	..			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..			
..	..	..	..	..	..	..	..	1	..	..	..	..	22	16	Rheumatic Fever ....	..			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....	..			
10	7	4	35	7	4	2	1	8	20	4	13	25	280	243	Bronchitis & Catarrh	5			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	Influenza .....	..			
..	..	..	3	..	..	..	1	2	..	1	2	3	22	30	Pleurisy & Pneumonia.	2			
2	..	..	12	..	2	1	..	..	5	..	..	3	67	65	Phthisis .....	14			
3	..	..	6	..	..	..	2	2	..	..	..	5	50	51	Constitutional Syphilis	1			
8	10	15	84	2	3	11	7	18	46	6	24	60	695	617	All other diseases ....	14			
1	..	..	63	..	..	..	..	1	14	..	28	..	244	221	Accidents .....	..			
26	19	25	227	14	10	16	12	37	100	12	70	112	1592	1528	TOTAL .....	44			

Indebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18) „ JAMES CRAN.  
(19) Mr. A. VEITCH  
(20) Mr. A. VEITCH  
(21) Dr. BRADDON,

(22) Mr. S. WOODCOCK,  
(23) Dr. ALEX. WILSON,  
(24) Mr. H. M. WILLIAMSON.  
(25) „ JOSEPH FOSTER,

(26) Mr. JOHN PORTER,  
(27) „ J. V. L. WESTMACOTT,  
(28) „ R. P. O. GORMAN,  
(29) „ GEORGE CLEMENTS.

The report of the Association, and has, as far as practicable, been taken into account in the conclusion drawn from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomson.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipler.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	1	4	2	..	..	1	1	..	..	..	..	1	1
Measles .....	1	1	1	..	2	1	2	..	..	2	2	8	3
Whooping-cough.....	1	3	1	..	2	2	..	1	..	1	..	12	..
Scarlatina .....	2	3	1	..	2	2	..	1	..	1	..	12	38
Diarrhoea .....	1	..	..	..	1	2	1	1	2	1	1	9	9
Fever .....	3	3	1	..	..	1	1	1	1	..	..	10	24
Diseases of the Lungs	11	11	6	2	6	7	5	3	5	13	3	72	51
Other causes.....	12	14	4	4	6	12	11	10	12	14	6	105	102
TOTAL NO. OF DEATHS.	31	36	15	6	17	25	20	16	20	31	12	229	228
TOTAL NO. OF BIRTHS.	32	48	15	16	14	33	29	17	34	70	22	330	311

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylcbone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

5 Weeks en ding 31st July.	4 Weeks ending 28th August.	4 Weeks ending 25th Sept.	TOTAL.	DISEASES.	5 Weeks ending 31st July.	4 Weeks ending 28th August.	4 Weeks ending 25th Sept.	TOTAL
3	5	5	13	..... Small-pox .....	44	24	24	92
51	39	27	117	..... Measles .....	92	39	39	170
64	59	96	219	..... Scarlet Fever.....	85	54	64	203
4	1	..	5	..... Diphtheria .....	..	3	..	3
86	78	51	215	..... Whooping-cough .....	43	32	43	118
4	5	4	13	..... Croup .....	1	6	2	9
1467	1250	785	3502	..... Diarrhoea .....	533	629	444	1606
9	4	3	16	..... Dysentery .....	13	24	13	50
1	..	..	1	..... Malignant Cholera.....	..	..	..	..
19	13	24	56	..... Erysipelas .....	21	17	18	56
17	20	28	65	..... Continued Fever .....	47	54	48	149
2	2	1	5	..... Typhus .....	67	55	58	180
3	6	10	19	..... Enteric or Typhoid .....	19	28	47	94
64	55	46	165	..... Febricula .....	157	147	119	423
2	1	2	5	..... Ague .....	..	1	1	2
56	43	38	137	..... Rheumatic Fever.....	65	21	34	120
..	..	..	..	..... Puerperal Fever.....	..	..	1	1
573	424	477	1474	..... Bronchitis and Catarrh .....	688	465	520	1673
7	..	..	7	..... Influenza.....	12	..	1	13
34	34	32	100	..... Pleurisy and Pneumonia .....	93	59	56	208
104	79	89	272	..... Phthisis.....	360	283	258	901
24	29	19	72	..... Constitutional Syphilis .....	162	134	131	427
4536	3561	3578	11675	....Accidents, and all other Diseases....	4766	3805	3833	12404
7130	5708	5315	18153	TOTAL	7268	5880	5754	18902

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Salford Meteorolog. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Height of barometer cistern above sea level .....	108 ft.	123 ft.	145 ft.	251 ft.	43 ft.
<b>Barometer.</b>	INS.	INS.	INS.	INS.	INS
Mean @ 32° F., and reduced to sea level .....	29·844	29·844	29·844	29·863	
Highest.....	30·217	30·208	30·217	30·090	
Lowest .....	29·181	29·140	29·181	29·286	
Range .....	1·036	1·068	1·036	·804	
<b>Temperature.</b>					
Adopted Mean .....	48·0	46·4	47·4	46·1	
Range for Week .....	15·8	19·0	16·3	16·1	
Daily Range.....	6·5	8·9	8·2	8·2	
Maximum in Shade .....	55·0	54·0	54·5	53·8	
Minimum in Shade .....	39·2	35·0	38·2	37·7	
Temperature of Dew Point .....	42·7	42·8	44·2	41·6	
<b>Hygrometrical condition of the Atmosphere.</b>					
Degree of Humidity (Saturation—1,000).....	GRS. 0·825	GRS. 0·881	GRS. 0·899	GRS. ·853	
Prevailing Winds .....	NW,W 1·581	S,W 1·560	NW,W 1·614	W 1·260	
Rain .....					
<b>Ozonometer.</b>					
Moffat .....	0·71	1·14	9·00	..	
Schonbein .....	..	0·29	..	7·85	



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, NOVEMBER 13, 1869.

No. 485.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, November the 13th, 1695 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1592, and in the corresponding week of last year it was 1657. The deaths in public practice during the week amounted to 54, being in the proportion of 1 death to every 31 cases.

Small-pox still continues prevalent in the Townships of Manchester and Salford. The number of cases has risen during the week from 3 to 9; 7 of these occurred in the former Township, and 2 in the latter.

There is this week a slight increase in the cases of Measles, 13 being returned instead of 10. This disease still prevails chiefly in Manchester and Salford; 10 of the cases occurred in Manchester, 2 in Salford, and 1 in Ardwick.

Scarlatina is declining in Manchester, while it is prevailing epidemically in Sheffield, Hull, Liverpool, Leeds, and London. Last week 19 cases were observed in the public practice of Manchester and Salford; in the week under notice there were 14 cases; 9 of the cases occurred in Manchester and 5 in Salford. In the corresponding week of last year the number was 38.

There is a decrease under Whooping-Cough, 25 cases being returned instead of 33. This disease is pretty uniformly distributed over the several Districts.

The Fever return is unsatisfactory; 67 of the severer forms occurred during the week, being 11 more than in the one preceding; 26 of these 67 cases were assigned to Continued Fever, 30 to Typhus, and 11 to Typhoid Fever. In the corresponding week of last year the number was 143.

The cases of Bronchitis and other acute chest diseases, have fallen in number from 302 to 293.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 250 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Eighty-three deaths were caused by Diseases of the Lungs, 17 by Whooping-Cough, 15 by Scarlatina, 10 by Fever, and 9 by Measles.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 41.1°; at the Salford Observatory it was 40.7°; at Eccles 40.2°; and at Old Trafford 40.0°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,  
PALM MALL, MANCHESTER.



# MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS.  
*New Cases of Disease coming under Treatment During the Year.*

		MANCHESTER.														
Area in Statute Acres .....		Manchester Township 1,645 .....														
Population in 1861 .....		,, ,, 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	Workhouse. 7	In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	City Gaol. 15
Small-pox .....	..	..	..	..	..	..	..	4	2	..	..	..	1	..	..	..
Measles .....	..	..	1	..	..	6	7	1	..	..	..	1	..	..	1	..
Scarlet Fever .....	65	.	1	..	..	..	6	..	..	..	..	3	..	..	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	2	..	..	..	1	3	..	..	..	..	..	..	6	5	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea.....	..	2	..	..	..	3	5	2	..	..	..	1	..	5	5	3
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	1	..	..	..	..	..	1	2	..	..	..	..	..	..	..	1
Continued Fever.....	4	..	1	..	1	..	6	1	..	..	..	..	..	..	..	..
Typhus .....	..	..	..	..	..	..	..	9	1	..	..	..	..	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	1	2	..	1	..	..	..	..	..
Febricula.....	1	..	..	2	1	3	7	4	2	2	1	2	5	7	..	2
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	..	3	..	1	..	..	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	10	7	6	7	5	14	49	11	..	32	2	3	1	6	8	3
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	..	..	..	..	..	..	..	4	..	..	2	..	..	..	3	..
Phthisis .....	..	..	1	..	..	..	1	5	1	17	..	1	5	1	..	1
Constitutional Syphilis .....	1	..	..	1	..	3	5	6	..	5	..	..	..	1	1	3
All other Diseases .....	20	9	23	10	5	23	90	64	19	130	4	5	18	64	53	2
Accidents .....	4	1	..	2	..	2	9	4	23	138	..	..	1	..	1	..
<b>TOTAL .....</b>	<b>46</b>	<b>21</b>	<b>33</b>	<b>22</b>	<b>12</b>	<b>55</b>	<b>189</b>	<b>118</b>	<b>53</b>	<b>324</b>	<b>11</b>	<b>16</b>	<b>31</b>	<b>90</b>	<b>77</b>	<b>15</b>

c 5 Removed to Workhouse.

*Medical Officers to whom the Association*

(13) Mr. H. RUNCORN  
(14) „ W. M. MACCA  
(15) „ J. OGDEN FL  
(16) Dr. A. C. CLARKE

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



# SANITARY ASSOCIATION.

IONS OF MANCHESTER AND ADJOINING DISTRICTS

Week ending the 13th day of November, 1869.

SALFORD.					HULME.			CHORLTON.		ARDWICK.		PENDLETON & PENDLEBURY.			Area in Statute Acres. Population in 1861.		DEATHS.
..... 1,329 .....					..... 477. ....			... 646. ....		508. ....		..... 2650. ....			..... 24,448 .....		
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.		
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's										
17	18	19	20	21	22	23	24	25	26	27	28	29					
..	..	..	1	..	..	..	..	..	..	..	..	..	9	4	Small-pox .....	..	
..	..	..	2	..	..	..	..	..	..	..	1	..	13	10	Measles .....	..	
..	..	..	3	..	..	..	..	..	..	..	..	..	14	38	Scarlet Fever.....	1	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..	
..	..	..	3	..	..	..	1	..	7	..	..	..	25	..	Whooping-cough ....	1	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Croup .....	..	
1	1	..	2	3	..	..	1	4	..	..	..	2	35	27	Diarrhœa .....	1	
..	..	..	1	..	..	..	..	..	..	..	..	..	1	5	Dysentery .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..	
..	..	..	..	..	..	..	..	..	..	..	2	..	6	6	Erysipelas .....	..	
1	4	6	2	..	..	a2	..	..	..	..	1	3	26	63	Continued Fever ....	..	
..	..	..	1	..	c6	..	..	5	..	..	..	8	30	62	Typhus .....	3	
..	..	..	2	..	..	..	1	2	..	..	1	..	11	18	Enteric or Typhoid ..	..	
..	2	..	5	..	2	1	3	1	7	..	5	..	58	61	Febricula .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..	
1	..	..	..	..	..	1	..	..	..	1	..	..	7	15	Rheumatic Fever ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Puerperal Fever.....	..	
3	7	4	40	5	2	3	5	17	21	3	10	26	272	289	Bronchitis & Catarrh	8	
..	..	..	..	..	..	..	..	..	..	1	..	..	1	8	Influenza .....	..	
..	..	1	6	2	..	..	..	..	..	..	..	2	20	23	Pleurisy & Pneumonia.	..	
..	..	..	14	..	1	2	..	2	9	..	1	6	69	76	Phthisis .....	7	
..	..	..	7	1	..	1	..	2	..	..	1	2	36	36	Constitutional Syphilis	1	
7	14	19	99	2	5	10	10	19	52	5	15	60	782	680	All other diseases ....	28	
2	..	..	50	..	..	1	..	1	10	..	31	8	280	234	Accidents .....	4	
20	28	30	238	13	16	21	21	53	106	10	68	117	1695	1657	TOTAL .....	54	

debted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18) „ JAMES CRAN.  
(19)  
(20) Mr. A. VEITCH  
(21) Dr. BRADDON,

(22) Mr. S. WOODCOCK,  
(23) Dr. ALEX. WILSON,  
(24) Mr. H. M. WILLIAMSON.  
(25) „ JOSEPH FOSTER,

(26) Mr. JOHN PORTER,  
(27) „ J.V.L. WESTMACOTT,  
(28) „ R. P. O. GORMAN,  
(29) „ GEORGE CLEMENTS.

e report of the Association, and has, as far as practicable, been taken into account in the conclusion  
a from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Charlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	1	..	..	..	..	..	1	1
Measles .....	2	3	..	..	..	1	2	..	..	1	..	9	2
Whooping-cough.....	2	..	1	..	3	4	1	..	1	4	1	17	..
Scarlatina .....	4	4	..	..	1	1	1	1	..	2	1	15	44
Diarrhoea .....	1	1	..	..	..	..	1	..	1	3	..	7	10
Fever .....	1	1	..	..	1	..	3	1	1	1	1	10	21
Diseases of the Lungs	23	14	4	5	4	4	5	2	8	10	4	83	55
Other causes.....	15	7	11	2	9	8	17	9	9	15	6	108	126
TOTAL NO. OF DEATHS.	48	30	16	7	18	19	30	13	20	36	13	250	259
TOTAL NO. OF BIRTHS.	38	42	23	22	9	34	37	13	33	64	20	335	339

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

5 Weeks ending 31st July.	4 Weeks ending 28th August.	4 Weeks ending 25th Sept.	TOTAL.	DISEASES.	5 Weeks ending 31st July.	4 Weeks ending 28th August.	4 Weeks ending 25th Sept.	TOTAL
3	5	5	13	..... Small-pox .....	4	24	24	92
51	39	27	117	..... Measles .....	92	39	39	170
64	59	96	219	..... Scarlet Fever.....	85	54	64	203
4	1	..	5	..... Diphtheria .....	..	3	..	3
86	78	51	215	..... Whooping-cough .....	43	32	43	118
4	5	4	13	..... Croup .....	1	6	2	9
1467	1250	785	3502	..... Diarrhoea .....	533	629	444	1606
9	4	3	16	..... Dysentery .....	13	24	13	50
1	..	..	1	..... Malignant Cholera.....	..	..	..	..
19	13	24	56	..... Erysipelas .....	21	17	18	56
17	20	28	65	..... Continued Fever .....	47	54	48	149
2	2	1	5	..... Typhus .....	67	55	58	180
3	6	10	19	..... Enteric or Typhoid .....	19	28	47	94
64	55	46	165	..... Febricula .....	157	147	119	423
2	1	2	5	..... Ague .....	..	1	1	2
56	43	38	137	..... Rheumatic Fever.....	65	21	34	120
..	..	..	..	..... Puerperal Fever.....	..	..	1	1
573	424	477	1474	..... Bronchitis and Catarrh .....	688	465	520	1673
7	..	..	7	..... Influenza.....	12	..	1	13
34	34	32	100	..... Pleurisy and Pneumonia .....	93	59	56	208
104	79	89	272	..... Phthisis.....	360	283	258	901
24	29	19	72	..... Constitutional Syphilis .....	162	134	131	427
4536	3561	3578	11675	....Accidents, and all other Diseases.....	4766	3805	3833	12404
7130	5708	5315	18153	TOTAL	7268	5880	5754	18902

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Salford Meteorologl. Observatory, T. Mackereh, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Height of barometer cistern above sea level .....	108 ft.	123 ft.	145 ft.	251 ft.	43 ft.
<b>Barometer.</b>	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level .....	29.975	29.974	29.975	29.980	
Highest.....	30.243	30.284	30.243	30.142	
Lowest .....	29.603	29.536	29.603	29.404	
Range .....	0.640	0.748	0.640	.738	
<b>Temperature.</b>					
Adopted Mean .....	40.7	40.0	40.2	39.4	
Range for Week .....	25.8	34.8	29.9	33.2	
Daily Range.....	12.2	19.6	13.1	16.0	
Maximum in Shade .....	55.0	58.0	54.1	56.2	
Minimum in Shade .....	29.2	23.2	24.2	23.0	
Temperature of Dew Point .....	35.7	35.4	36.3	36.1	
<b>Hygrometrical condition of the Atmosphere.</b>					
Degree of Humidity (Saturation—1,000).....	GRS. 0.798	GRS. 0.840	GRS. 0.860	GRS. .816	
Prevailing Winds .....	W,NW	S,W	W,NW	W	
Rain .....	1.434	1.363	1.320	1.128	
<b>Ozonometer.</b>					
Moffat .....	0.57	3.71	5.71	....	
Schonbein .....	....	0.43	....	4.43	



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.1

WEEK ENDING SATURDAY, NOVEMBER 20, 1869.

No. 486.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, November the 20th, 1766 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1695, and in the corresponding week of last year it was 1599. The deaths in public practice during the week amounted to 63, being in the proportion of 1 death to every 28 cases.

The cases of Small-pox have decreased in number from 9 to 3; 1 each of these occurred in the Townships of Manchester, Salford, and Ardwick.

Measles has declined during the week, 9 cases being returned instead of 13.; 8 of the cases were observed in Manchester, and 1 in Salford.

There is but little Change in the Scarlatina return; 16 cases were reported, being 2 more than in the preceding week. In the corresponding week of last year the number was 50.

Whooping-Cough is increasing in prevalency; the numbers of the cases for the last three weeks respectively being 33, 25, and 36; 26 of these 36 cases were observed in Manchester, 4 in Salford, and 6 in Chorlton. In the corresponding week of last year there was not a single case of this disease

There is a decrease in the cases of Fever, 58 being returned instead of 67; 20 of the cases were assigned to Continued Fever, 24 to Typhus, and 14 to Typhoid Fever.

Bronchitis and other acute chest diseases are increasing in prevalence with the advance of the season; 338 cases were returned, being 48 more than in the preceding week.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 273 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Ninety-four deaths were caused by Diseases of the Lungs, 16 by Fever, 15 by Whooping-Cough, 9 by Measles, and 7 each by Scarlatina and Diarrhoea.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 45.8°; at the Salford Meteorological Observatory it was 47.1°; at Eccles 46.4°; and at Old Trafford 45.9°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,  
PALL MALL, MANCHESTER.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS  
New Cases of Disease coming under Treatment During the Year 1861

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	,, ,, 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	ROYAL INFIRMARY.					CHILDREN			City Gaol. 15
								Workhouse. 7	In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	
Small-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Measles .....	..	1	..	..	..	1	2	1	..	..	..	1	2	..	2	..
Scarlet Fever .....	..	..	..	1	..	..	1	5	..	..	..	..	..	..	2	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	..	..	..	..	..	..	..	2	..	..	1	10	13	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea .....	..	..	1	1	..	1	3	..	..	..	..	..	..	5	3	3
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Malignant Cholera .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	2	..	..	..	..	2	..	..	..	..	..	..	1	..	..
Continued Fever .....	..	..	..	a2	a6	..	8	7	..	..	..	..	..	..	..	..
Typhus .....	..	a1	..	..	..	1	2	5	3	..	..	b1	..	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	5	..	..	..	b1	1	1	1	..
Febricula .....	3	1	..	1	1	5	11	..	..	..	1	..	3	7	..	2
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	1	1	2	..	2	24	..	..	..	..	..	..
Puerperal Fever .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	11	6	2	6	6	12	43	8	1	48	1	6	7	7	10	4
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia .....	..	1	..	2	..	1	4	4	..	..	..	..	2	..	2	..
Phthisis .....	1	1	..	..	..	..	2	4	..	31	2	..	2	1	2	1
Constitutional Syphilis .....	..	..	..	..	..	..	..	10	..	6	..	..	..	1	1	2
All other Diseases .....	21	7	22	17	2	19	88	60	23	140	10	4	5	58	95	4
Accidents .....	..	1	..	..	2	1	4	3	21	107	1	..	2	..	..	..
TOTAL .....	36	21	25	30	18	42	172	112	50	358	15	13	25	91	132	16

a Removed to Workhouse.      b Removed to Royal Infirmary Fever Ward.      c 1 Removed

Medical Officers to whom the Association

- (1) Mr. R. M. MANN.

(2) „ J. BROADBENT,

(3) „ EDWARD MEACHAM,

(4) „ JOHN WALSH.
- (5) Mr. OCTAVIUS DEAN,

(6) Dr. LEDWARD,

(7) Mr. J. WESTMORELAND,

(8) „ J. P. SLEIGHTHOLME,
- (9) {

(10) { Mr. C. CURRIE RITCHIE,

(11) { „ W. H. CARRUTHERS,

(12) { „ H. O. PILKINGTON.
- (13) Mr. H. RUNCORN

(14) „ W. M. MACCA

(15) „ J. OGDEN FLI

(16) Dr. A. C. CLARKE,

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



IONS OF MANCHESTER AND ADJOINING DISTRICTS  
*Week ending the 20th day of November, 1869.*

*debted for the annexed Returns.*

(17) Dr. T. M. JOHNSON,	(22) Mr. S. WOODCOCK,	(26) Mr. JOHN PORTER,
(18) „ JAMES CRAN.	(23) Dr. ALEX. WILSON,	(27) „ J.V.L. WESTMACOTT,
(19)	(24) Mr. H. M. WILLIAMSON.	(28) „ R. P. O. GORMAN,
(20) Mr. A. VEITCH	(25) „ JOSEPH FOSTER,	(29) „ GEORGE CLEMENTS.
(21) Dr. BRADDON.		

the report of the Association, and has, as far as practicable, been taken into account in the conclusion drawn from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bowel.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	3	..	..	..	..	..	3	7
Measles .....	1	4	..	..	1	..	..	..	..	3	..	9	..
Whooping-cough.....	1	3	..	1	3	5	..	..	..	..	2	15	..
Scarlatina .....	..	5	..	..	..	..	..	..	1	1	..	7	46
Diarrhoea .....	1	1	..	..	1	..	1	1	..	2	..	7	1
Fever .....	1	3	6	..	..	..	2	1	1	1	1	16	28
Diseases of the Lungs	20	10	5	3	3	5	11	1	11	20	5	91	83
Other causes.....	13	10	22	6	9	10	16	7	7	17	5	122	110
TOTAL NO. OF DEATHS.	37	36	33	10	17	23	30	10	20	44	13	273	275
TOTAL NO. OF BIRTHS.	25	45	8	19	16	36	30	15	23	59	22	298	302

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,915.

4 Weeks ending 28th August	4 Weeks ending 25th Sept.	5 Weeks ending 30th Oct.	TOTAL.	DISEASES.	4 Weeks ending 28th August.	4 Weeks ending 25th Sept.	5 Weeks ending 30th Oct.	TOTAL
5	5	2	12	..... Small-pox .....	24	24	37	85
39	27	40	106	..... Measles .....	39	39	67	145
59	96	109	264	..... Scarlet Fever.....	54	64	63	181
1	..	..	1	..... Diphtheria .....	3	..	..	3
78	51	78	207	..... Whooping-cough .....	32	43	93	168
5	4	3	12	..... Croup .....	6	2	3	11
1250	785	507	2542	..... Diarrhoea .....	629	444	311	1384
4	3	4	11	..... Dysentery .....	24	13	15	52
..	..	..	..	..... Malignant Cholera.....	..	..	..	..
13	24	26	63	..... Erysipelas .....	17	18	23	58
20	28	39	87	..... Continued Fever .....	54	48	96	198
2	1	1	4	..... Typhus .....	55	58	105	218
6	10	27	43	..... Enteric or Typhoid .....	28	47	50	125
55	46	58	159	..... Febricula .....	147	119	198	464
1	2	5	8	..... Ague .....	1	1	1	3
43	38	70	151	..... Rheumatic Fever.....	21	34	90	145
..	..	..	..	..... Puerperal Fever.....	..	1	..	1
424	477	759	1660	..... Bronchitis and Catarrh .....	465	520	872	1857
..	..	1	1	..... Influenza .....	..	1	1	2
34	32	61	127	..... Pleurisy and Pneumonia .....	59	56	54	169
79	89	128	296	..... Phthisis .....	283	258	340	881
29	19	32	80	..... Constitutional Syphilis .....	134	131	210	475
3561	3578	4041	11180	.... Accidents, and all other Diseases.....	3805	3833	4921	12559
5708	5315	5991	17014	TOTAL	5880	5754	7550	19184

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Salford Meteorologl. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Height of barometer cistern above sea level .....	108 ft.	123 ft.	145 ft.	251 ft.	43 ft.
<b>Barometer.</b>	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level .....	30.138	30.142	30.138	30.142	30.127
Highest.....	30.289	30.314	30.289	30.190	30.378
Lowest .....	29.741	29.724	29.741	29.648	29.820
Range .....	0.548	0.590	0.548	0.542	0.558
<b>Temperature.</b>					
Adopted Mean .....	47.1	45.9	46.4	45.4	46.3
Range for Week .....	19.9	22.3	23.8	25.0	29.8
Daily Range .....	7.0	12.2	11.9	11.1	12.2
Maximum in Shade .....	55.9	55.3	52.4	54.8	57.1
Minimum in Shade .....	36.0	33.0	31.9	29.8	27.3
Temperature of Dew Point .....	43.1	42.5	43.9	41.5	42.7
<b>Hygrometrical condition of the Atmosphere</b>					
Degree of Humidity (Saturation—1,000).....	GRS. 0.868	GRS. 0.881	GRS. 0.916	GRS. 0.868	GRS. 0.881
Prevailing Winds .....	NW SW	S, W	NW, SW	S, SW	W S, W
Rain .....	0.116	0.167	0.206	0.205	0.133
<b>Ozonometer.</b>					
Moffat .....	0.28	1.71	1.28	....	....
Schonbein .....	....	0.14	....	2.71	....



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, NOVEMBER 27, 1869.

No. 487.

#### DISEASES.—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, November the 27th, 1672 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1766, and in the corresponding week of last year it was 1671. The deaths in public practice during the week amounted to 67, being in the proportion of 1 death to every 24 cases.

Small-pox still prevails in Manchester and Salford. The number of cases has risen from 3 to 12. Three cases occurred in the former Township and 9 in the latter.

Measles is declining, the numbers of cases for the last three weeks being 13, 9, and 7 respectively.

There is a slight improvement under Scarlatina, 12 cases being returned instead of 16. In the corresponding week of last year the number was 40.

There is but a slight change in the return of Whooping-Cough, 32 cases being reported instead of 36. Whooping-Cough has caused more deaths this week in Manchester and Salford than any other infectious disease.

There is again this week a slight improvement in the Fever return, 50 cases having occurred instead of 58; 23 cases were assigned to Continued Fever, 19 to Typhus, and 8 to Typhoid Fever. In the corresponding week of last year there were 83 cases.

Three hundred and thirty-nine cases of Bronchitis and other acute chest diseases were observed during the week, being one more than in the preceding return.

#### DEATHS.—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 277 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Eighty-five deaths were caused by Diseases of the Lungs, 18 by Whooping-Cough, 16 by Fever, 10 by Diarrhoea, and 9 each by Scarlatina and Measles.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 41·0°; at the Salford Meteorological Observatory it was 39·3°; at Eccles 38·4°; and at Old Trafford 38·7°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,  
PALM MALL, MANCHESTER.



RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS.  
*New Cases of Disease coming under Treatment During the Year.*

*a* Removed to Workhouse.      *b* Removed to Royal Infirmary.

(1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9)	(13) Mr. H. RUNCORN.
(2) „ J. BROADBENT,	(6) Dr. LEDWARD,	(10) { Mr. H. O. PILKINGTON,	(14) „ W. M. MACCALL,
(3) „ EDWARD MEACHAM,	(7) Mr. J. WESTMORELAND,	(11) { „ W. H. CARRUTHERS,	(15) „ J. OGDEN FLETCHER,
(4) „ JOHN WALSH.	(8) „ J. P. SLEIGHTHOLME,	(12) { „ E. J. SUTCLIFFE,	(16) Dr. A. C. CLARKE,

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over this fact has several times been noticed



IONS OF MANCHESTER AND ADJOINING DISTRICTS  
*Week ending the 27th day of November, 1869.*

debted for the annexed Returns.

(26) Mr. JOHN PORTER,  
(27) „ J.V.L.WESTMACOTT,  
(28) „ R. P. O. GORMAN,  
(29) „ GEORGE CLEMENTS.

report of the Association, and has, as far as practicable, been taken into account in the conclusion from the weekly returns.



# Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomson.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	3	..	..	1	1	1	1	..	2	..	9	5
Measles .....	1	3	..	1	1	8	1	..	..	2	1	18	..
Whooping-cough.....	..	..	..	..	1	1	3	..	..	2	2	9	46
Scarlatina .....	3	1	..	..	1	1	..	1	2	2	..	10	6
Diarrhœa .....	3	2	2	1	1	..	2	1	2	1	1	16	23
Fever .....	13	15	10	3	8	3	3	2	9	11	8	85	72
Diseases of the Lungs	19	14	20	3	5	10	16	8	10	17	8	130	141
Other causes.....													
<b>TOTAL NO. OF DEATHS.</b>	39	38	32	8	18	24	26	12	23	37	20	277	293
<b>TOTAL NO. OF BIRTHS.</b>	42	50	31	11	18	32	34	21	40	67	24	370	350

## Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,315.

4 Weeks ending 28th August.	4 Weeks ending 25th Sept.	5 Weeks ending 30th Oct.	TOTAL.	DISEASES.	4 Weeks ending 28th August.	4 Weeks ending 25th Sept.	5 Weeks ending 30th Oct.	TOTAL
5	5	2	12	..... Small-pox .....	24	24	37	85
39	27	40	106	..... Measles .....	39	39	67	145
59	96	109	264	..... Scarlet Fever.....	54	64	63	181
1	..	..	1	..... Diphtheria .....	3	..	..	3
78	51	78	207	..... Whooping-cough .....	32	43	93	168
5	4	3	12	..... Croup .....	6	2	3	11
1250	785	507	2542	..... Diarrhœa .....	629	444	311	1384
4	3	4	11	..... Dysentery .....	24	13	15	52
..	..	..	..	..... Malignant Cholera.....	..	..	..	..
13	24	26	63	..... Erysipelas .....	17	18	23	58
20	28	39	87	..... Continued Fever .....	54	48	96	198
2	1	1	4	..... Typhus .....	55	58	105	218
6	10	27	43	..... Enteric or Typhoid .....	28	47	50	125
55	46	58	159	..... Febricula .....	147	119	198	464
1	2	5	8	..... Ague .....	1	1	1	3
43	38	70	151	..... Rheumatic Fever.....	21	34	90	145
..	..	..	..	..... Puerperal Fever .....	..	1	..	1
424	477	759	1660	..... Bronchitis and Catarrh .....	465	520	872	1857
..	..	1	1	..... Influenza .....	..	1	1	2
34	32	61	127	..... Pleurisy and Pneumonia .....	59	56	54	169
79	89	128	296	..... Phthisis .....	283	258	340	881
29	19	32	80	..... Constitutional Syphilis .....	134	131	210	475
3561	3578	4041	11180	.... Accidents, and all other Diseases.....	3805	3833	4921	12559
5708	5315	5991	17014	<b>TOTAL</b>	5880	5754	7550	19184

## METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Salford Meteorologl. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq	Eccles, T. MACKERETH Esq	Wilmslow, J. THOMPSON, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Height of barometer cistern above sea level .....	108 ft.	123 ft.	145 ft.	251 ft.	43 ft.
<b>Barometer.</b>	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level .....	29.627	29.626	29.627		29.646
Highest.....	30.095	29.836	50.095		30.202
Lowest .....	29.151	29.166	29.151		29.226
Range .....	0.944	0.670	0.944		0.976
<b>Temperature.</b>					
Adopted Mean .....	39.3	38.7	38.4		38.8
Range for Week .....	21.4	22.2	23.7		27.0
Daily Range .....	9.4	14.7	13.5		11.8
Maximum in Shade .....	49.9	51.0	49.9		51.0
Minimum in Shade .....	28.5	28.8	26.2		24.0
Temperature of Dew Point .....	36.8	35.4	36.3		36.5
<b>Hygrometrical condition of the Atmosphere.</b>	GRS.	GRS.	GRS.	NO RETURN.	GRS.
Degree of Humidity (Saturation—1,000).....	0.912	0.888	0.927		0.918
Prevailing Winds .....	NW	S, NE, W	NW		NW
Rain .....	0.823	0.890	0.820		0.529
<b>Ozonometer.</b>					
Moffat .....	0.14	0.86	2.57		....
Schonbein .....	....	0.57	....		....



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, DECEMBER 4, 1869.

No. 488

**DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, December the 4th, 1711 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1672, and in the corresponding week of last year it was 1636. The deaths in public practice during the week amounted to 66, being in the proportion of 1 death to every 25 cases.

Small-pox continues to be confined to the Townships of Manchester and Salford. Five cases were returned instead of 12. Two occurred in the former, and 3 in the latter Township.

There is a slight increase in the cases of Measles, 9 being returned instead of 7. Four of the cases were observed in Manchester, 4 in Salford, and 1 in Chorlton.

Scarlatina is declining; the numbers for the last three weeks being 16, 12, and 9 respectively. Three of these 9 cases occurred in Manchester, 3 in Salford, 2 in Hulme, and 1 in Chorlton. In the corresponding week of last year the number was 50.

Whooping-Cough is now by far the most prevalent and fatal of the infectious class of diseases. Fifty-two cases occurred in the public practice of this week, being an increase of 20 upon the number of the preceding return.

The Fever return is unsatisfactory; the number of cases having risen from 50 to 79. Thirty-five of these were assigned to Continued Fever, 37 to Typhus, and 7 to Typhoid Fever.

The cases of Bronchitis, and other acute chest diseases, have risen in number from 339 to 359.

**DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 254 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Ninety-nine deaths were caused by Diseases of the Lungs, 24 by Whooping-Cough, 7 by Fever, 6 by Scarlatina, and 5 each by Small-pox, Measles, and Diarrhoea.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 34.2°; at the Salford Meteorological Observatory it was 35.0°; at Eccles 33.6°; and at Old Trafford 33.0°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,  
PALM MALL, MANCHESTER.



RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS.  
*New Cases of Disease coming under Treatment During the Year.*

*a* Removed to Workhouse.      *b* 1 Removed to Workhouse.      *c* Removed to Small-pox Ward.

(1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9) {	(13) Mr. H. RUNCORN,
(2) „ J. BROADBENT,	(6) Dr. LEDWARD,	(10) {	(14) „ W. M. MACCAL,
(3) „ EDWARD MEACHAM,	(7) Mr. J. WESTMORELAND,	(11) {	(15) „ J. OGDEN FLE,
(4) „ JOHN WALSH.	(8) „ J. P. SLEIGHTHOLME,	(12) {	(16) Dr. A. C. CLARKE,

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door to the relief to the workhouse, and are then wanted twice, even this fact has several times been noticed.



# SANITARY ASSOCIATION.

REPORTS OF MANCHESTER AND ADJOINING DISTRICTS  
Week ending the 4th day of December, 1869.

SALFORD.					HULME.			CHORLTON.		ARDWICK.	PENDLETON & PENDLEBURY.				Area in Statute Acres. Population in 1861.		DEATHS.
..... 1,329 .....					..... 477 .....			.. 646 ..		508.	..... 2650 .....						
..... 70,967. ....					.. 68,209. ..			.. 44,850 ..		21739.	..... 24,448 .....						
POOR LAW DISTRICT		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.		Poor Law District.		Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.	
Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.					
17	18	19	20	21	22	23	24	25	26	27	28	29					
..	..	1	1	..	..	..	..	..	..	..	..	..	5	5	Small-pox .....	1	
..	..	..	4	..	..	..	..	..	..	..	..	1	9	4	Measles .....	..	
..	1	..	2	..	..	2	..	..	..	..	..	1	9	50	Scarlet Fever. ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..	
..	..	..	..	..	1	..	3	..	7	..	1	..	52	1	Whooping-cough ....	2	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..	
..	..	..	6	8	..	..	..	..	1	..	..	2	32	38	Diarrhœa .....	1	
..	..	..	1	..	..	..	..	..	..	..	..	..	3	1	Dysentery .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..	
..	..	..	..	..	..	..	..	..	..	..	1	4	8	5	Erysipelas .....	1	
..	..	1	3	..	..	..	1	..	1	..	3	..	35	34	Continued Fever ....	..	
..	..	..	1	..	a1	..	1	a1	..	..	..	7	37	45	Typhus .....	5	
..	..	..	4	..	..	..	..	1	..	..	..	..	7	18	Enteric or Typhoid ..	..	
..	2	..	3	..	1	1	..	4	4	..	2	1	35	39	Febricula .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..	
..	..	..	..	..	2	..	..	..	..	3	..	1	14	20	Rheumatic Fever ....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....	..	
7	8	4	47	0	1	6	4	20	24	3	12	26	329	326	Bronchitis & Catarrh	8	
..	..	..	2	..	..	..	..	..	7	..	1	..	10	7	Influenza .....	..	
1	..	..	4	..	..	1	..	..	1	..	1	1	20	25	Pleurisy & Pneumonia.	1	
2	1	..	15	..	1	..	..	..	3	..	1	5	85	61	Phthisis .....	10	
1	..	..	8	1	..	..	..	1	..	..	..	2	43	56	Constitutional Syphilis	..	
18	16	9	90	1	9	9	7	21	42	10	25	50	739	677	All other diseases ....	29	
2	1	..	60	..	..	1	..	1	12	..	19	3	239	224	Accidents .....	8	
31	29	15	251	15	16	20	16	49	102	16	66	104	1711	1636	TOTAL .....	66	

a Removed to Infirmary Fever Ward.

debted for the annexed Returns.

(17) Dr. T. M. JOHNSON,  
(18) „ JAMES CRAN.  
(19)  
(20) Mr. A. VEITCH  
(21) Dr. BRADDON,

(22) Mr. S. WOODCOCK,  
(23) Dr. ALEX. WILSON,  
(24) Mr. H. M. WILLIAMSON.  
(25) „ JOSEPH FOSTER,

(26) Mr. JOHN PORTER,  
(27) „ J. V. L. WESTMACOTT,  
(28) „ R. P. O. GORMAN,  
(29) „ GEORGE CLEMENTS.

report of the Association, and has, as far as practicable, been taken into account in the conclusion from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tuppel.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	1	1	..	..	2	1	..	..	..	..	5	1
Measles .....	..	2	..	..	..	..	..	..	1	2	..	5	2
Whooping-cough.....	2	1	1	..	..	5	6	..	..	7	2	24	..
Scarlatina .....	1	3	..	..	1	..	..	..	..	..	1	6	36
Diarrhœa .....	..	2	..	..	..	..	1	..	1	..	1	5	3
Fever .....	1	..	2	..	..	..	3	..	..	1	..	7	23
Diseases of the Lungs	12	9	7	5	8	11	3	4	11	21	5	99	86
Other causes.....	7	11	17	6	5	13	9	6	7	18	4	103	147
TOTAL NO. OF DEATHS.	23	29	28	11	14	31	23	10	20	52	13	254	298
TOTAL NO. OF BIRTHS.	30	49	20	15	12	27	28	21	24	65	17	308	320

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 25th Sept.	5 Weeks ending 30th Oct.	4 Weeks ending 27th Nov.	TOTAL.	DISEASES.	4 Weeks ending 25th Sept.	5 Weeks ending 30th Oct.	4 Weeks ending 27th Nov.	TOTAL
5	2	6	13	..... Small-pox .....	24	37	27	88
27	40	59	126	..... Measles .....	39	67	39	145
96	109	157	352	..... Scarlet Fever.....	64	63	61	188
..	..	..	..	..... Diphtheria .....	..	..	..	..
51	78	92	221	..... Whooping-cough .....	43	93	126	262
4	3	1	8	..... Croup .....	2	3	2	7
785	507	244	1536	..... Diarrhœa .....	444	311	142	897
3	4	..	7	..... Dysentery .....	13	15	6	34
..	..	1	1	..... Malignant Cholera.....	..	23	..	..
24	26	13	63	..... Erysipelas .....	18	23	26	67
28	39	20	87	..... Continued Fever .....	48	96	89	233
1	1	..	2	..... Typhus .....	53	105	94	257
10	27	11	48	..... Enteric or Typhoid .....	47	50	46	145
46	58	48	152	..... Febricula .....	119	198	199	516
2	5	4	11	..... Ague .....	1	1	..	2
38	70	72	180	..... Rheumatic Fever.....	34	90	73	197
..	..	..	..	..... Puerperal Fever .....	1	..	..	1
477	759	886	2122	..... Bronchitis and Catarrh .....	520	872	1163	2550
..	1	3	4	..... Influenza.....	1	1	9	11
32	61	42	145	..... Pleurisy and Pneumonia .....	56	54	95	205
80	128	113	330	..... Phthisis .....	258	340	303	901
19	32	30	81	..... Constitutional Syphilis .....	131	210	165	506
3578	4041	3521	11140	....Accidents, and all other Diseases....	3833	4921	4053	12807
5315	5991	5323	16629	TOTAL	5754	7550	6725	20020

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Salford Meteorologl. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq	Eccles, T. MACKERETH Esq	Wilmslow, J. T. THOMPSON, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Height of barometer cistern above sea level .....	108 ft.	123 ft.	145 ft.	251 ft.	43 ft.
<b>Barometer.</b>	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level .....	29.951	29.974	29.951	29.948	29.965
Highest.....	30.159	30.222	50.159	30.020	30.230
Lowest .....	29.449	29.412	29.449	29.306	29.504
Range .....	0.710	0.810	0.710	0.714	0.726
<b>Temperature.</b>					
Adopted Mean .....	35.0	33.0	33.6	32.9	31.9
Range for Week .....	21.0	25.3	26.1	25.0	28.9
Daily Range .....	7.5	11.1	8.8	9.7	10.8
Maximum in Shade .....	45.8	46.3	46.5	44.1	46.6
Minimum in Shade .....	24.8	21.0	20.4	19.1	17.7
Temperature of Dew Point .....	30.5	29.4	30.8	29.9	27.2
<b>Hygrometrical condition of the Atmosphere.</b>					
Degree of Humidity (Saturation—1,000).....	GRS. 0.830	GRS. ....	GRS. 0.890	GRS. ....	GRS. 0.812
Prevailing Winds .....	N	SW,NW,SE	N	W,NW	N
Rain .....	0.343	0.390	0.380	0.086	0.410
<b>Ozonometer.</b>					
Moffat .....	....	....	1.57	1.57	....
Schonbein .....	....	....	....	....	....



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, DECEMBER 11, 1869.

No. 489.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, December the 11th, 1738 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1711, and in the corresponding week of last year it was 1562. The deaths in public practice during the week amounted to 69, being in the proportion of 1 death to every 23 cases.

There is an increase in the number of Small-pox cases; 13 being returned instead of 5; 9 of these occurred in Salford.

Measles shows a slight tendency to increase in prevalency, the numbers for the last three weeks being 7, 9, and 11, respectively.

The cases of Scarlatina have risen in number from 9 to 13. Eight cases were observed in Manchester, and 5 in Salford. In the corresponding week of last year the number was 44.

The return of Whooping-Cough is very much the same as it was last week. Fifty-one cases occurred which were thus distributed:—34 in Manchester, 2 in Salford, 3 in Hulme, 8 in Chorlton, and 4 in Ardwick.

The Fever return continues to be unsatisfactory. Sixty-nine cases were observed during the week; 31 of these were assigned to Continued Fever, 30 to Typhus, and 8 to Typhoid Fever. Mr. Westmoreland states “that 20 cases of Relapsing Fever came under treatment in the Workhouse Hospital, Bridge-street, during the past month, and, that already 17 have been admitted this month. These cases have been classed with others under the general heading ‘Continued Fever’ in the Weekly Return. The greater proportion have been taken into Hospital from the Vagrant Ward.”

The return of Bronchitis, and other acute chest diseases is still very high; 356 cases were observed during the week, being 3 less than in the week preceding.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 327 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. One hundred and ten deaths were caused by Diseases of the Lungs, 20 by Whooping-Cough, 13 by Fever, 8 by Diarrhœa, and 6 each by Scarlatina and Measles.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 39·2°; at the Salford Meteorological Observatory it was 40·2°; at Eccles 38·7°; and at Old Trafford 39·2°.

JOHN ROBERTS, M.D., Hon. Sec.



MANCHESTER AND SALFORD

RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS  
New Cases of Disease coming under Treatment During the Year 1861

MANCHESTER.																
Area in Statute Acres .....		Manchester Township 1,645 .....														
Population in 1861 .....		,, ,, 185,050 .....														
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts. 7	ROYAL INFIRMARY.						CHILDREN		
								Workhouse. 7	In- patients. 8	Out- patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14	City Gaol. 15
Small-pox .....	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..
Measles .....	2	1	..	..	..	..	3	1	1	..	..	..	2	..	..	..
Scarlet Fever .....	..	2	1	2	..	..	5	..	..	..	..	..	2	1	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	4	1	1	3	9	..	..	2	..	3	..	12	8	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa .....	..	..	..	..	..	..	..	1	..	..	..	..	..	6	6	4
Dysentery .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Malignant Cholera .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	1	..	1	..	..	1	3	1	1	2	..	..	1	1	..	..
Continued Fever .....	..	a2	4	..	a4	..	10	15	1	..	..	..	..	..	..	..
Typhus .....	..	..	..	..	a1	1	2	12	2	..	..	..	1	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..
Febricula .....	..	..	..	1	a1	5	7	1	..	..	2	1	4	1	1	2
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	1	..	..	..	..	..	1	1	2	24	..	1	1	..	..	..
Puerperal Fever .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	12	13	9	11	12	16	73	16	..	42	2	2	9	6	8	3
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia .....	2	..	..	..	1	..	3	1	1	..	..	..	1	..	..	..
Phthisis .....	..	..	..	..	1	1	2	8	..	21	2	4	3	1	1	2
Constitutional Syphilis .....	..	1	..	..	1	2	4	9	..	7	..	..	1	..	1	3
All other Diseases .....	14	6	22	12	8	15	77	37	21	117	10	3	9	73	67	3
Accidents .....	..	1	..	..	..	2	3	4	14	102	1	..	..	..	..	..
TOTAL .....	32	26	41	27	30	47	203	109	43	317	17	14	34	101	92	17

a Removed to Workhouse.

Medical Officers to whom the Association

(1) Mr. R. M. MANN.	(5) Mr. OCTAVIUS DEAN,	(9) {	(13) Mr. H. RUNCORN,
(2) „ J. BROADBENT,	(6) Dr. E. MANLEY,	(10) {	(14) „ W. M. MACCAL
(3) „ EDWARD MEACHAM,	(7) Mr. J. WESTMORELAND,	(11) {	(15) Dr. J. OGDEN FLE
(4) „ JOHN WALSH.	(8) „ J. P. SLEIGHTHOLME,	(12) {	(16) „ A. C. CLARKE,

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over. This fact has several times been noticed



SANITARY ASSOCIATION.

TIONS OF MANCHESTER AND ADJOINING DISTRICTS  
e Week ending the 11th day of December, 1869.

SALFORD.						HULME.			CHORLTON.		ARDWICK	PENDLETON & PENDLEBURY.							DEATHS.	
..... 1,329 .....						.... 477. ....			.. 646. ...		508.	..... 2650.....					Area in Statute Acres.			
..... 70,967. ....						.. 68,209. ..			.. 44,850..		21739	..... 24,448 .....					Population in 1861.			
POOR LAW DISTRICT			PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS														
Greenbank.	Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.				
6	17	18	19	20	21	22	23	24	25	26	27	28	29							
3	..	..	3	3	..	..	..	..	..	..	..	..	2	13	5	Small-pox .....	1			
.	..	..	..	3	..	..	..	..	1	..	..	..	..	11	9	Measles .....	..			
.	..	1	..	4	..	..	..	..	..	..	..	..	..	13	44	Scarlet Fever.....	1			
.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..			
2	..	..	..	..	..	..	..	3	2	6	..	4	..	51	1	Whooping-cough ....	3			
.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..			
2	..	2	..	6	3	..	1	..	..	..	..	..	2	33	40	Diarrhœa .....	1			
.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	Dysentery .....	..			
.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..			
.	..	1	..	..	..	..	..	..	..	..	..	1	..	11	5	Erysipelas .....	..			
.	..	..	2	3	..	..	..	..	..	..	..	..	..	31	25	Continued Fever ....	1			
.	..	..	..	2	..	..	..	..	3	..	..	..	8	30	49	Typhus .....	4			
1	..	..	..	4	..	..	..	..	1	..	1	..	..	8	17	Enteric or Typhoid ..	1			
2	..	..	..	4	..	1	4	2	..	5	..	3	3	43	50	Febricula .....	..			
.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..			
.	..	..	..	..	1	..	..	..	..	..	..	..	..	31	7	Rheumatic Fever ....	..			
.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever.....	..			
1	10	11	5	40	5	7	6	5	15	25	8	8	28	345	312	Bronchitis & Catarrh	22			
.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	Influenza .....	..			
.	..	..	..	2	..	..	..	1	..	..	..	..	2	11	22	Pleurisy & Pneumonia.	1			
4	1	..	..	12	..	3	..	..	3	4	..	3	5	79	62	Phthisis .....	8			
.	4	..	..	..	1	..	..	2	1	..	..	..	4	37	41	Constitutional Syphilis	1			
2	12	21	28	97	2	12	9	9	17	45	10	15	56	762	670	All other diseases ....	22			
.	..	..	..	64	..	..	..	..	..	10	..	25	5	229	197	Accidents .....	3			
3	27	36	38	244	12	23	20	22	43	95	19	59	115	1738	1562	TOTAL .....	69			

indebted for the annexed Returns.

- (17) Dr. T. M. JOHNSON,  
(18) " JAMES CRAN.  
(19)  
(20) " A. VEITCH  
(21) " BRADDON,

(22) Mr. S. WOODCOCK,  
(23) Dr. ALEX. WILSON,  
(24) Mr. H. M. WILLIAMSON.  
(25) " JOSEPH FOSTER,

(26) Mr. JOHN PORTER,  
(27) " J. V. L. WESTMACOTT,  
(28) " R. P. O. GORMAN,  
(29) " GEORGE CLEMENTS.

the report of the Association, and has, as far as practicable, been taken into account in the conclusion drawn from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bowel.	Regent-rd. Dis., Mr. Tuppel.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	1	2	1	2	2	2	1	2	2	2	2	1	2
Measles .....	3	2	1	2	2	4	4	2	1	7	2	6	5
Whooping-cough.....	1	2	2	2	2	2	1	2	1	1	2	20	2
Scarlatina .....	2	2	2	2	2	2	1	2	1	1	2	6	25
Diarrhœa .....	2	3	2	1	2	1	1	2	1	1	2	8	4
Fever .....	3	2	3	1	2	2	1	2	2	2	1	13	26
Diseases of the Lungs	16	11	18	3	7	3	10	2	17	13	10	110	91
Other causes.....	12	26	22	11	14	16	12	12	14	19	5	163	124
TOTAL NO. OF DEATHS.	36	46	44	16	23	26	31	14	34	41	16	327	275
TOTAL NO. OF BIRTHS.	80	45	14	17	22	24	41	19	33	61	23	329	329

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,815.

4 Weeks ending 25th Sept.	5 Weeks ending 30th Oct.	4 Weeks ending 27th Nov.	TOTAL.	DISEASES.	4 Weeks ending 25th Sept.	5 Weeks ending 30th Oct.	4 Weeks ending 27th Nov.	TOTAL
5	2	6	13	..... Small-pox .....	24	37	27	88
27	40	59	126	..... Measles .....	39	67	39	145
96	109	157	352	..... Scarlet Fever.....	64	63	61	188
21	23	22	66	..... Diphtheria .....	2	2	2	6
51	73	92	221	..... Whooping-cough .....	43	93	126	262
4	3	1	8	..... Croup .....	2	3	2	7
785	507	244	1536	..... Diarrhœa .....	444	311	142	897
3	4	2	9	..... Dysentery .....	13	15	6	34
2	2	1	5	..... Malignant Cholera.....	2	2	2	6
24	26	13	63	..... Erysipelas .....	18	23	26	67
28	39	20	87	..... Continued Fever .....	48	96	89	233
1	1	2	4	..... Typhus .....	58	105	94	257
10	27	11	48	..... Enteric or Typhoid .....	47	50	48	145
46	58	48	152	..... Febricula .....	119	198	199	516
2	5	4	11	..... Ague .....	1	1	2	4
38	70	72	180	..... Rheumatic Fever.....	34	90	73	197
2	2	2	6	..... Puerperal Fever.....	1	2	2	5
477	759	886	2122	..... Bronchitis and Catarrh .....	520	872	1168	2560
2	1	3	6	..... Influenza.....	1	1	9	11
32	61	42	145	..... Pleurisy and Pneumonia .....	56	54	95	205
89	128	113	330	..... Phthisis.....	258	340	303	901
19	32	30	81	..... Constitutional Syphilis .....	131	210	165	506
3578	4041	3521	11140	..... Accidents, and all other Diseases.....	3833	4921	4053	12807
5315	5991	5323	16629	TOTAL	5754	7550	6725	20029

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Salford Meteorologl. Observatory, T. Mackereth, Esq.	Old Trafford, G. V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Penketh, Warrington L. W. Reynolds Esq.
Height of barometer cistern above sea level .....	108 ft.	123 ft.	145 ft.	251 ft.	43 ft.
Barometer.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F., and reduced to sea level .....	30.057	30.056	30.057		30.057
Highest.....	30.503	30.540	30.503		30.604
Lowest .....	29.199	29.214	29.199		29.266
Range .....	1.304	1.326	1.304		1.338
Temperature.					
Adopted Mean .....	40.2	39.2	38.7		37.6
Range for Week .....	13.1	15.0	16.1		20.1
Daily Range .....	6.6	8.1	8.1		7.9
Maximum in Shade .....	48.4	47.0	46.6		44.4
Minimum in Shade .....	35.3	32.0	30.5		24.3
Temperature of Dew Point .....	36.5	36.4	35.6		35.9
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	NO RETURN.	GRS.
Degree of Humidity (Saturation—1,000).....	0.874	0.904	0.897		0.937
Prevailing Winds .....	E	N.E.S	E		E
Rain .....	0.259	0.250	0.284		0.235
Ozonometer.					
Moffat .....	....	....	0.57		....
Schonbein .....	....	....	....		....



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, DECEMBER 18, 1869.

No. 490.

#### **DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, December the 18th, 1588 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1588, and in the corresponding week of last year it was 1462. The deaths in public practice during the week amounted to 55, being in the proportion of 1 death to every 28 cases.

Small-pox still continues to prevail in Manchester and Salford,—most of the cases occurring in those Townships; 2 cases were also observed during the week in Chorlton. Eleven cases were returned, being 2 less than in the preceding week.

There is a decrease of 2 in the number of Measles cases, 9 being returned, being the same number as in the week before last. The majority of cases occurred in Manchester.

Scarlatina remains much in the same state as in the preceding week, 14 cases being returned instead of 13. This disease was confined during the week to the Townships of Manchester, Salford, and Hulme.

Whooping-Cough is very prevalent, the cases having risen in number during the week from 51 to 60; 43 of the cases were observed in Manchester, 6 in Salford, 4 in Hulme, 6 in Chorlton, and 1 in Ardwick.

There is a slight improvement in the Fever return, 59 cases being reported instead of 69. Twenty-five cases were assigned to Continued Fever, 8 to Relapsing Fever, 9 to Typhus, and 17 to Typhoid Fever.

Bronchitis, and other acute chest diseases have slightly decreased of late, the numbers for the last three weeks being 359, 356, and 324.

#### **DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 281 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Ninety-two deaths were caused by Diseases of the Lungs, 38 by Whooping-Cough, 13 by Fever, and 8 by Scarlatina.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 44.7°; at the Salford Meteorological Observatory it was 43.2°; at Eccles 42.1°; and at Old Trafford 41.4°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,  
PALL MALL, MANCHESTER.



# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC INSTITUTIONS. New Cases of Disease coming under Treatment

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	" " 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	ROYAL INFIRMARY.						CHILDREN		
	1	2	3	4	5	6	7	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.		
Small-pox .....	..	..	..	..	..	..	..	2	1	..	..	..	d1	..	..	
Measles .....	..	..	1	..	..	2	3	..	..	2	..	..	1	..	..	
Scarlet Fever .....	..	..	..	1	..	..	1	..	..	..	..	..	3	..	1	
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Whooping-cough .....	..	..	1	5	..	7	13	..	..	3	..	..	..	12	15	
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Diarrhœa.....	..	..	..	..	..	1	1	2	..	2	..	1	..	2	4	
Dysentery .....	..	..	..	..	..	1	1	..	..	1	..	..	1	..	..	
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Erysipelas .....	..	..	..	..	..	..	..	1	1	..	..	..	..	3	..	
Continued Fever.....	..	a1	3	..	a2	8	14	c10	..	..	..	..	..	..	..	
Typhus .....	..	..	..	..	..	..	..	5	..	..	a1	..	..	..	..	
Enteric or Typhoid .....	..	..	..	..	b2	..	2	7	..	..	..	..	..	..	1	
Febricula.....	2	..	..	1	..	3	6	2	..	..	1	..	3	1	2	
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Rheumatic Fever .....	..	..	..	..	a1	2	3	1	1	12	..	..	2	..	..	
Puerperal Fever.....	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	
Bronchitis and Catarrh .....	10	6	1	7	7	13	44	22	2	37	4	4	6	9	10	
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Pleurisy and Pneumonia....	..	1	..	..	..	..	1	2	..	..	..	..	1	..	..	
Phthisis .....	1	..	..	..	1	1	3	8	1	29	1	3	3	..	1	
Constitutional Syphilis .....	..	..	..	..	..	..	..	4	1	5	..	..	..	..	1	
All other Diseases .....	18	9	17	6	9	10	69	32	32	135	7	5	7	42	46	
Accidents .....	2	1	2	1	..	..	6	6	16	105	2	1	..	..	..	
TOTAL .....	33	18	25	21	22	49	168	104	55	331	16	14	28	69	81	17

a Removed to Workhouse.

b 1 Removed to Workhouse.

c 8 Relapsing Fever.

Medical Officers to whom the Association are indebted.

- (1) Mr. R. M. MANN.  
(2) „ J. BROADBENT,  
(3) „ EDWARD MEACHAM,  
(4) „ JOHN WALSH.

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(8) „ J. P. SLEIGHTHOLME,

- (9) „  
(10) Mr. H. O. PILKINGTON,  
(11) „ W. H. CARRUTHERS,  
(12) „ E. J. SUTCLIFFE,

- (13) Mr. H. RUNCORN,  
(14) „ W. M. MACCARTHY,  
(15) Dr. J. OGDEN FLEMING,  
(16) „ A. C. CLARKE.

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over. This fact has several times been noticed.



# SANITARY ASSOCIATION.

REPORTS OF THE SANITARY ASSOCIATION OF MANCHESTER AND ADJOINING DISTRICTS  
for the Week ending the 18th day of December, 1869.

SALFORD.									HULME.			CHORLTON.		ARDWICK.		PENDLETON & PENDLEBURY.			Area in Statute Acres. Population in 1861.		DEATHS.
..... 1,329 .....									..... 477 .....			..... 646 .....		..... 508 .....		..... 2650 .....					
..... 70,967 .....									..... 68,209 .....			..... 44,850 .....		..... 21,739 .....		..... 24,448 .....					
POOR LAW DISTRICT			PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES.					
Greengate.	Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's													
16	17	18	19	20	21	22	23	24	25	26	27	28	29								
..	2	..	1	2	..	..	..	..	..	1	..	..	1	11	8	Small-pox .....	1				
..	..	..	..	2	..	..	..	..	..	..	..	..	1	9	1	Measles .....	3				
..	..	..	..	4	..	..	4	1	..	..	..	..	..	14	34	Scarlet Fever .....	..				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..				
1	..	..	3	2	..	..	2	2	..	5	1	..	1	60	..	Whooping-cough ....	3				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup .....	..				
2	..	..	..	3	4	..	..	..	..	..	..	..	2	25	25	Diarrhoea .....	2				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	Dysentery .....	..				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera ..	..				
..	..	..	..	..	..	..	1	..	..	..	..	..	..	6	3	Erysipelas .....	1				
1	..	..	3	3	..	..	..	..	..	..	..	..	2	33	36	Continued Fever ....	..				
..	..	..	..	2	..	..	..	..	..	..	..	..	1	9	45	Typhus .....	3				
..	..	..	..	4	..	..	..	..	3	..	..	..	..	17	12	Enteric or Typhoid ..	..				
..	..	..	..	3	..	1	3	..	4	6	..	4	1	40	44	Febricula .....	..				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ague .....	..				
..	..	..	1	..	..	1	1	..	..	..	2	2	..	28	23	Rheumatic Fever ....	..				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	Puerperal Fever .....	1				
..	15	12	3	42	6	5	4	3	15	23	13	8	20	312	245	Bronchitis & Catarrh	10				
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	Influenza .....	..				
..	..	1	..	3	..	..	1	1	..	2	..	..	..	12	11	Pleurisy & Pneumonia.	1				
..	1	1	1	10	..	1	1	1	1	3	2	..	7	80	55	Phthisis .....	7				
..	4	..	..	4	..	..	..	1	3	..	..	..	4	30	39	Constitutional Syphilis	..				
13	17	20	21	97	1	7	6	17	8	21	2	19	45	669	661	All other diseases ....	22				
..	..	1	..	60	..	2	..	..	..	10	..	16	4	229	214	Accidents .....	1				
17	39	35	33	261	11	17	23	26	34	71	20	49	89	1588	1462	TOTAL ..	55				

Removed to Small Pox Ward.

is indebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,	(22) Mr. S. WOODCOCK,	(26) Mr. JOHN PORTER,
(18) „ JAMES CRAN.	(23) Dr. ALEX. WILSON,	(27) „ J.V.L.WESTMACOTT,
(19) „	(24) Mr. H. M. WILLIAMSON.	(28) „ R. P. O. GORMAN,
(20) „ A. VEITCH	(25) „ JOSEPH FOSTER,	(29) „ GEORGE CLEMENTS.
(21) „ BRADDON,		

in the report of the Association, and has, as far as practicable, been taken into account in the conclusion drawn from the weekly returns.



Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomason.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tiptle.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corres- ponding week last year.
Small Pox .....	..	..	..	..	..	2	..	..	..	..	..	2	1
Measles .....	2	2	..	..	..	..	1	..	..	..	..	5	6
Whooping-cough.....	3	2	2	1	5	7	1	1	..	11	2	35	1
Scarlatina .....	2	5	..	..	1	..	..	..	..	..	..	8	31
Diarrhœa .....	1	..	1	..	1	1	1	..	2	..	..	7	6
Fever .....	1	2	2	..	1	..	4	..	2	..	1	13	26
Diseases of the Lungs	17	14	6	3	5	8	6	1	6	20	6	92	72
Other causes.....	14	10	18	5	2	4	20	6	12	19	9	119	142
TOTAL NO. OF DEATHS.	40	35	29	9	15	22	33	8	22	50	18	281	285
TOTAL NO. OF BIRTHS.	39	39	10	8	19	28	31	13	23	75	21	306	390

Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.  
Medical Officer of Health, John Whitmore, M.D.  
Population in 1861, 161680.

At Pauper, Charitable, and Public Institutions in  
MANCHESTER and SALFORD.  
Population in 1861, 390,315.

4 Weeks ending 25th Sept.	5 Weeks ending 30th Oct.	4 Weeks ending 27th Nov.	TOTAL.	DISEASES.	4 Weeks ending 25th Sept.	5 Weeks ending 30th Oct.	4 Weeks ending 27th Nov.	TOTAL
5	2	6	13	..... Small-pox .....	24	37	27	88
27	40	59	126	..... Measles .....	39	67	39	145
96	109	157	352	..... Scarlet Fever.....	64	63	61	188
..	..	..	..	..... Diphtheria .....	..	..	..	..
51	73	92	221	..... Whooping-cough .....	43	93	126	262
4	3	1	8	..... Croup .....	2	3	2	7
785	507	244	1536	..... Diarrhœa .....	444	311	142	897
3	4	..	7	..... Dysentery .....	13	15	6	34
..	..	1	1	..... Malignant Cholera.....	..	..	..	..
24	26	13	63	..... Erysipelas .....	18	23	26	67
28	39	20	87	..... Continued Fever .....	48	96	89	233
1	1	..	2	..... Typhus .....	58	105	94	257
10	27	11	48	..... Enteric or Typhoid .....	47	50	48	145
46	58	48	152	..... Febricula .....	119	193	199	516
2	5	4	11	..... Ague .....	1	1	..	2
38	70	72	180	..... Rheumatic Fever.....	34	90	73	197
..	..	..	..	..... Puerperal Fever.....	1	..	..	1
477	759	886	2122	..... Bronchitis and Catarrh .....	520	872	1168	2560
..	1	3	4	..... Influenza.....	1	1	9	11
32	61	42	145	..... Pleurisy and Pneumonia .....	56	54	95	205
89	128	113	330	..... Phthisis.....	258	340	303	901
19	32	30	81	..... Constitutional Syphilis .....	131	210	165	506
3578	4041	3521	11140	....Accidents, and all other Diseases.....	3833	4921	4053	12807
5315	5991	5323	16629	TOTAL	5754	7550	6725	20029

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Salford Meteorologi. Observatory, T. Mackereth, Esq.	Old Trafford, G.V. VERNON, Esq.	Eccles, T. MACKERETH Esq.	Wilmslow, J. THOMPSON, Esq.	Penketh, Warrington L.W. Reynolds Esq.
Height of barometer cistern above sea level .....	108 ft.	123 ft.	145 ft.	251 ft.	43 ft.
<b>Barometer.</b>	INS.	INS.	INS.	INS	INS.
Mean @ 32° F., and reduced to sea level .....	29.342	29.358	29.342		29.321
Highest.....	29.677	29.663	29.677		29.784
Lowest .....	28.797	28.788	29.797		28.894
Range .....	0.880	0.875	0.880		0.890
<b>Temperature.</b>					
Adopted Mean .....	43.2	41.4	42.1		42.0
Range for Week .....	22.2	25.0	25.5		50.0
Daily Range .....	10.6	12.3	12.1		12.4
Maximum in Shade .....	54.2	55.0	55.9		56.3
Minimum in Shade .....	32.0	30.0	30.4		26.3
Temperature of Dew Point .....	38.1	36.8	35.0		37.3
<b>Hygrometrical condition of the Atmosphere.</b>					
Degree of Humidity (Saturation—1,000).....	GRS. 0.820	GRS. 0.848	GRS. 0.864	NO RETURN.	GRS. 0.843
Prevailing Winds .....	SW,NW	SW,S	SW,NW		S,W
Rain .....	2.699	2.747	2.535		2.305
<b>Ozonometer.</b>					
Moffat .....	0.57	5.14	6.28		....
Schonbein .....	....	1.14	....		....



# HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

## Manchester and Salford Sanitary Association.

### WEEKLY RETURN.

VOL. IX.]

WEEK ENDING SATURDAY, DECEMBER 25, 1869.

No. 491.

**DISEASES.**—*The extent to which they prevailed in Pauper, Charitable, and Public Institutions of Manchester and Salford.*

In the week ending on Saturday, December the 25th, 1246 new cases of disease were observed in the public practice of Manchester and Salford. In the preceding week the number was 1583, and in the corresponding week of last year it was 1223. The deaths in public practice during the week amounted to 70, being in the proportion of 1 death to every 17 cases.

There is an improvement under Small-Pox, 6 cases being returned instead of 11. Two of the cases occurred in Manchester, 3 in Salford, and 1 in Chorlton.

The return of Measles is the same as it was last week, 9 cases being reported.

There is a marked improvement under Scarlatina, 8 cases being returned instead of 14. In the corresponding week of last year the number was 30.

There is also a great improvement in the return of Whooping-Cough, the number of cases having fallen from 60 to 31.

Diarrhoea and Dysentery are decreasing in frequency, the number of cases for the last three weeks being 33, 28, and 22, respectively.

There is this week a slight decrease in the cases of Fever, 51 being returned instead of 59. Thirty-one of the cases were assigned to Continued Fever, 16 to Typhus, and 4 to Typhoid Fever.

The cases of Bronchitis, and other acute chest diseases have fallen in number from 324 to 233.

**DEATHS.**—*The Number Registered in Manchester and Salford, and their Causes.*

Last week 243 deaths were registered in the eleven registration districts which supply returns to the Sanitary Association. Eighty-nine deaths were caused by Diseases of the Lungs, 19 by Whooping-Cough, 14 by Scarlatina, and 11 by Fever.

At the Royal Observatory, Greenwich, the mean temperature of the air in the week was 38.2°; at the Salford Meteorological Observatory it was 38.7°; at Eccles 37.9°; and at Old Trafford 37.3°.

JOHN ROBERTS, M.D., Hon. Sec.

COMMITTEE ROOMS,  
PALL MALL, MANCHESTER.



RETURN FROM PAUPER, CHARITABLE, AND PUBLIC  
New Cases of Disease coming under Treatment

MANCHESTER.																	
Area in Statute Acres.....		Manchester Township 1,645 .....															
Population in 1861.....		" " 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.									
	1 St. Peter's	2 St. Andrew's	3 St. George's	4 Cathedral	5 St. Jude's	6 St. Michael's	Total of Districts.	7 Workhouse.	ROYAL INFIRMARY.					CHILDREN			15 City Gaol.
									8 In- patients.	9 Out- patients.	10 District I.	11 District II.	12 District III.	13 St. Mary's Hospital.	14 Clinical Hospital.		
Small-pox .....	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..
Measles .....	1	2	..	..	..	..	3	..	..	..	..	..	1	..	3	..	..
Scarlet Fever .....	..	..	1	..	1	..	2	..	..	..	..	..	1	1	..	..	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough .....	..	..	1	3	..	1	5	..	..	..	..	..	2	3	9	..	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	1	1	..	..	..	..	2	1	..	..	1	..	1	1	1	..	..
Dysentery .....	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	..	..	..	1	..	..	1	..	1	..	..	..	..	..	..	..	..
Continued Fever.....	a1	..	4	b1	..	3	9	12	..	..	..	a1	..	..	..	..	..
Typhus .....	..	..	..	..	..	..	..	11	2	..	..	..	..	..	..	..	..
Enteric or Typhoid .....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Febricula.....	2	..	..	1	..	..	3	2	1	..	1	1	3	3	..	..	..
Ague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever .....	..	..	..	..	..	..	..	..	1	7	..	1	2	..	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh .....	5	3	1	4	8	3	24	10	..	34	2	3	7	6	4	..	..
Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pleurisy and Pneumonia....	3	..	..	2	..	..	5	3	..	..	1	..	2	..	..	..	..
Phthisis .....	..	1	..	..	..	3	4	3	..	23	2	2	2	1	..	..	..
Constitutional Syphilis .....	..	..	..	1	..	..	1	8	..	5	1	..	..	..	1	..	..
All other Diseases .....	19	6	9	9	3	8	54	13	19	106	13	3	10	36	45	..	..
Accidents .....	1	..	..	..	1	2	4	..	24	93	1	1	1	..	1	..	..
TOTAL.....	33	14	16	22	13	20	118	66	48	268	22	12	32	51	64	1	..

a Removed to Workhouse.

b Relapsing Fever. Removed to Workhouse.

Medical Officers to whom the Association

- (1) Mr. R. M. MANN.  
(2) „ J. BROADBENT.  
(3) „ EDWARD MEACHAM,  
(4) „ JOHN WALSH.

- (5) Mr. OCTAVIUS DEAN,  
(6) Dr. E. MANLEY,  
(7) Mr. J. WESTMORELAND,  
(8) „ J. P. SLEIGHTHOLME,

- (9) }  
(10) } Mr. H. O. PILKINGTON,  
(11) } „ W. H. CARRUTHERS,  
(12) } „ A. E. SUTCLIFFE,

- (13) Mr. H. RUNCOR  
(14) „ W. M. MACC  
(15) Dr. J. OGDEN I  
(16) „ A. C. CLARK

N.B.—Certain diseases, such as fever, insanity, &c., are sometimes transferred from the out-door medical relief to the workhouse and are then reported twice over. This fact has several times been noticed



# SANITARY ASSOCIATION.

## REPORTS OF MANCHESTER AND ADJOINING DISTRICTS for the Week ending the 25th day of December, 1869.

SALFORD.			RULME.			CHORLTON.		ARDWICK.		PENDLETON PENDLEBURY.			Area in Statute Acres. Population in 1861.		DEATHS.		
..... 1,329 .....			..... 477 .....			..... 646 .....		..... 508 .....		..... 2650 .....							
..... 70,967 .....			..... 68,209 .....			..... 44,850 .....		..... 21,739 .....		..... 24,148 .....							
POOR LAW DISTRICT			PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS			Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	Corresponding Week last Year.	DISEASES	
Greengate.	Regent Road.	Regent Road No. 2.	Workhouse.	Dispensary.	Salford County Gaol.	St. George's.	Medlock.	St. Philip's.									
16	17	18	19	20	21	22	23	24	25	26	27	28	29				
..	..	..	1	2	..	..	..	..	1	..	..	..	..	6	5	Small-pox .....	2
..	..	..	..	1	..	..	..	..	..	..	..	..	1	9	4	Measles .....	1
..	..	..	..	1	..	..	1	..	..	..	2	..	..	8	30	Scarlet Fever .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria .....	..
..	1	..	..	2	..	..	1	1	..	6	..	1	..	31	2	Whooping-cough .....	1
..	..	..	..	1	..	..	..	..	1	..	..	..	..	2	..	Croup .....	..
4	1	..	..	3	..	..	..	..	..	..	..	..	3	21	14	Diarrhœa .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	Dysentery .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	5	Erysipelas .....	..
..	..	..	3	2	..	2	..	..	..	..	1	..	1	31	18	Continued Fever .....	..
..	..	..	..	1	..	..	..	..	..	..	..	..	2	16	28	Typhus .....	1
..	..	..	..	3	..	..	..	..	..	..	..	..	..	4	13	Enteric or Typhoid ..	4
..	..	1	..	3	..	1	1	..	2	5	..	3	..	30	28	Febricula .....	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	Ague .....	..
1	1	..	..	..	..	..	..	..	..	..	..	2	..	17	11	Rheumatic Fever .....	..
..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	Puerperal Fever .....	1
2	8	7	..	37	4	1	3	3	8	25	6	6	9	213	180	Bronchitis & Catarrh ..	11
..	..	..	..	..	1	..	1	..	..	..	..	..	..	2	1	Influenza .....	..
..	..	..	..	4	..	..	1	..	..	1	..	..	1	18	14	Pleurisy & Pneumonia.	3
1	1	..	..	12	2	1	3	..	..	5	..	3	1	68	41	Phthisis .....	10
..	1	..	..	3	4	..	..	..	..	..	..	1	1	29	23	Constitutional Syphilis ..	..
10	10	12	10	54	..	3	8	6	15	27	8	18	37	519	564	All other diseases .....	29
1	1	2	..	59	1	..	..	..	1	9	..	16	3	218	240	Accidents .....	7
19	24	22	14	189	12	8	19	10	28	78	17	50	59	1246	1223	TOTAL ..	70

is indebted for the annexed Returns.

(17) Dr. T. M. JOHNSON,	(22) Mr. S. WOODCOCK,	(26) Mr. JOHN PORTER,
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Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Mr. C. F. Johns.	Deansgate Dis., Mr. Thomson.	Greengate Dis., Mr. Bowe.	Regent-rd. Dis., Mr. Tupple.	Pendleton Dis., Mr. Bowker.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Corresponding week last year.
Small Pox .....	1	..	1	..	..	1	..	..	..	..	..	3	1
Measles .....	2	..	..	..	..	..	..	..	..	..	..	2	9
Whooping-cough.....	4	3	1	..	..	2	..	..	2	4	3	19	11
Scarlatina .....	3	4	..	1	..	2	1	..	2	1	..	14	21
Diarrhœa .....	1	..	..	..	..	..	..	..	..	..	..	1	7
Fever .....	3	1	2	1	..	1	1	..	..	2	..	11	18
Diseases of the Lungs	14	12	8	6	10	7	3	2	9	12	6	89	70
Other causes.....	11	13	15	5	7	12	11	8	6	8	8	104	127
TOTAL NO. OF DEATHS.	39	33	27	13	17	25	16	10	19	27	17	243	264
TOTAL NO. OF BIRTHS.	28	37	8	11	22	27	22	16	29	67	24	291	313

## Monthly Return of New Cases of Disease coming under Treatment

In 11 Charitable Institutions in St. Marylebone, LONDON.

Medical Officer of Health, John Whitmore, M.D.

Population in 1861, 161680.

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2	5	4	11	..... Febricula .....	119	198	199	516
38	70	72	180	..... Ague .....	1	1	..	2
..	..	..	..	..... Rheumatic Fever.....	34	90	73	197
477	759	886	2122	..... Puerperal Fever.....	1	..	..	1
..	1	3	4	..... Bronchitis and Catarrh .....	520	872	1163	2550
32	61	42	145	..... Influenza.....	1	1	9	11
89	128	113	330	..... Pleurisy and Pneumonia .....	56	54	95	205
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Height of barometer cistern above sea level .....	103 ft.	123 ft.	145 ft.	251 ft.	43 ft.
<b>Barometer.</b>	INS.	INS.	INS.	INS	INS.
Mean @ 32° F., and reduced to sea level .....	29.713	29.721	29.713	..	29.722
Highest.....	30.053	30.070	29.053	..	30.166
Lowest .....	29.099	29.136	29.099	..	29.180
Range .....	0.954	0.934	0.954	..	0.986
<b>Temperature.</b>				NO RETURN.	
Adopted Mean .....	38.7	37.3	37.9	..	36.6
Range for Week .....	11.8	15.0	15.8	..	16.6
Daily Range .....	5.2	7.1	8.6	..	7.8
Maximum in Shade .....	43.8	44.0	44.6	..	44.4
Minimum in Shade .....	32.0	29.0	28.8	..	27.8
Temperature of Dew Point .....	33.7	33.7	33.2	..	32.5
<b>Hygrometrical condition of the Atmosphere.</b>				..	
Degree of Humidity (Saturation—1,000).....	GRS. 0.842	GRS. 0.873	GRS. 0.839	..	GRS. 0.853
Prevailing Winds .....	NE,NW	NW	NE,NW	..	W,N
Rain .....	0.196	0.174	0.195	..	0.114
<b>Ozonometer.</b>				..	
Moffat .....	0.14	....	2.71	..	....
Schonbein .....	....	....	....	..	....

December 25, 1869.

THOMAS MACKERETH, Esq., F.R.A.S.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.